

AD-A117 139

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/6 4/2
19310A MLRS, MISSILE NUMBERS BN124, BN138, BN171, BN127, BN133,--ETC(U)

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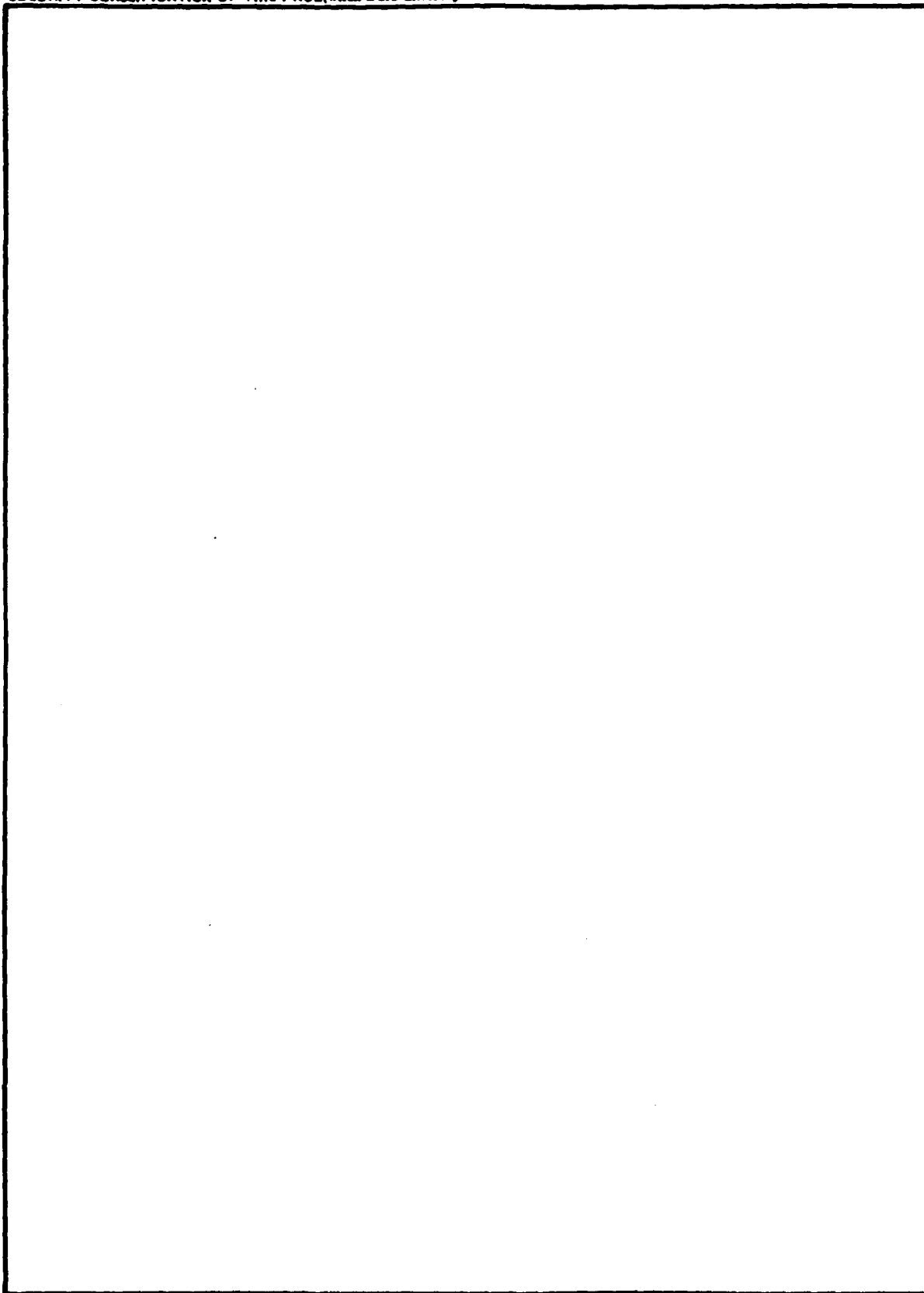
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19310A MLRS, Missile Numbers BN124,BN138,BN171,BN127,BN133,BN136, Round Numbers V-274/PQ-14,V-275/PQ-15,V-276/PQ-16,V-277/PQ-17,V-278/PQ-18,V-279/PQ-19 are presented in tabular form.		

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INTRODUCTION

19310A MLRS, Missile Numbers BN-124, BN-138, BN-171, BN-127, BN-133, and BN-136, Round Numbers V-274/PQ-14, V-275/PQ-15, V-276/PQ-16, V-277/PQ-17, V-278/PQ-18, V-279/PQ-19, were launched from BRILLO, White Sands Missile Range (WSMR), New Mexico, at 0850:27, 0850:31, 0850:36, 0921:00, 0921:05, and 0921:09 MDT, 14 June 1982. The scheduled launch times were 0830, 0830:04.5, 0830:09, 0900, 0900:04.5, and 0900:09 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the D3 $\frac{1}{2}$ Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from Double Theodolite pilot-balloon observations at:

SITE AND ALTITUDE

D3 $\frac{1}{2}$ 2 km
DEAD HORSE 2 km

(2) Air structure data (rawinsonde) were collected at the following Met Sites:

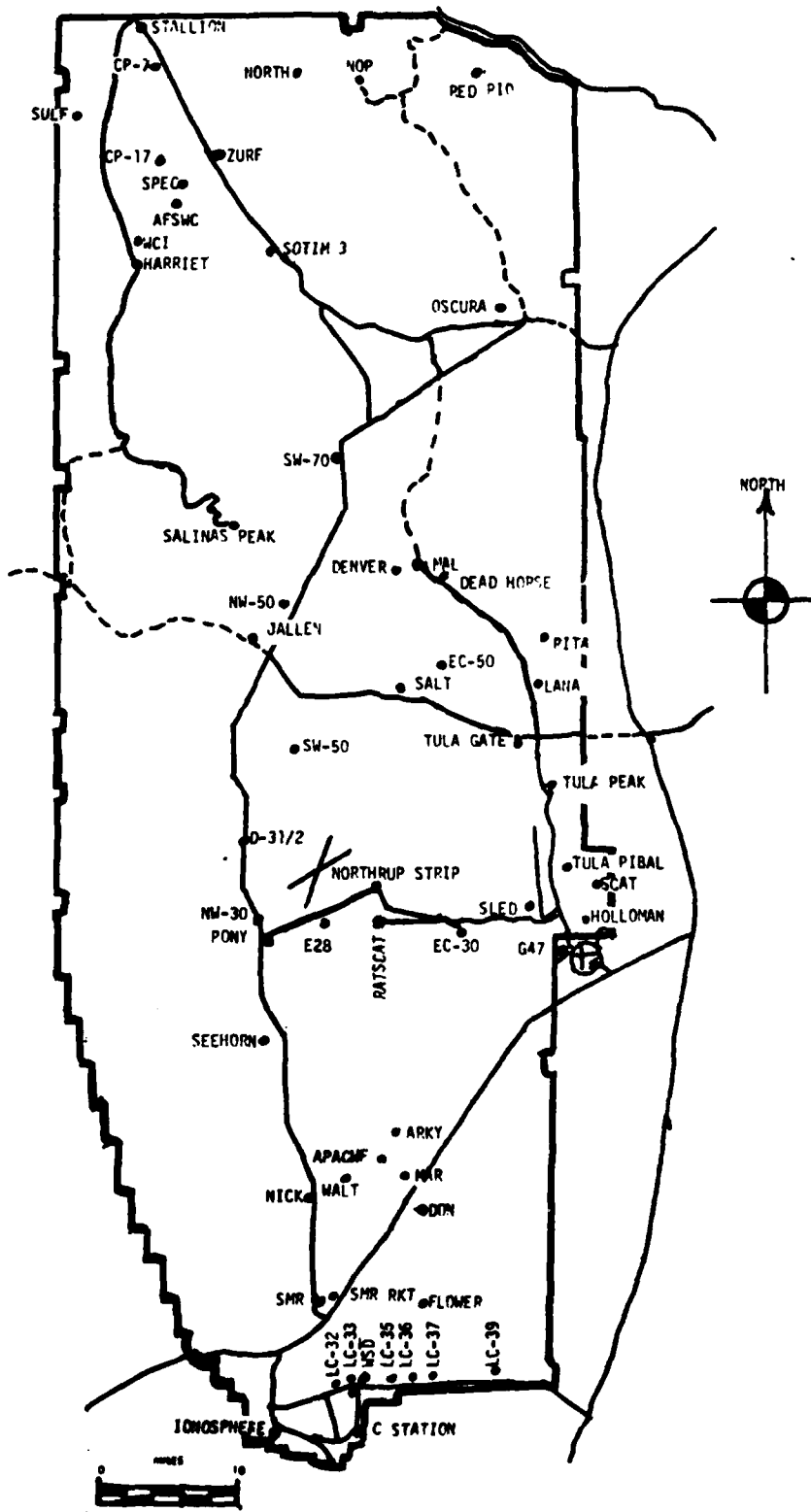
SITE AND TIME

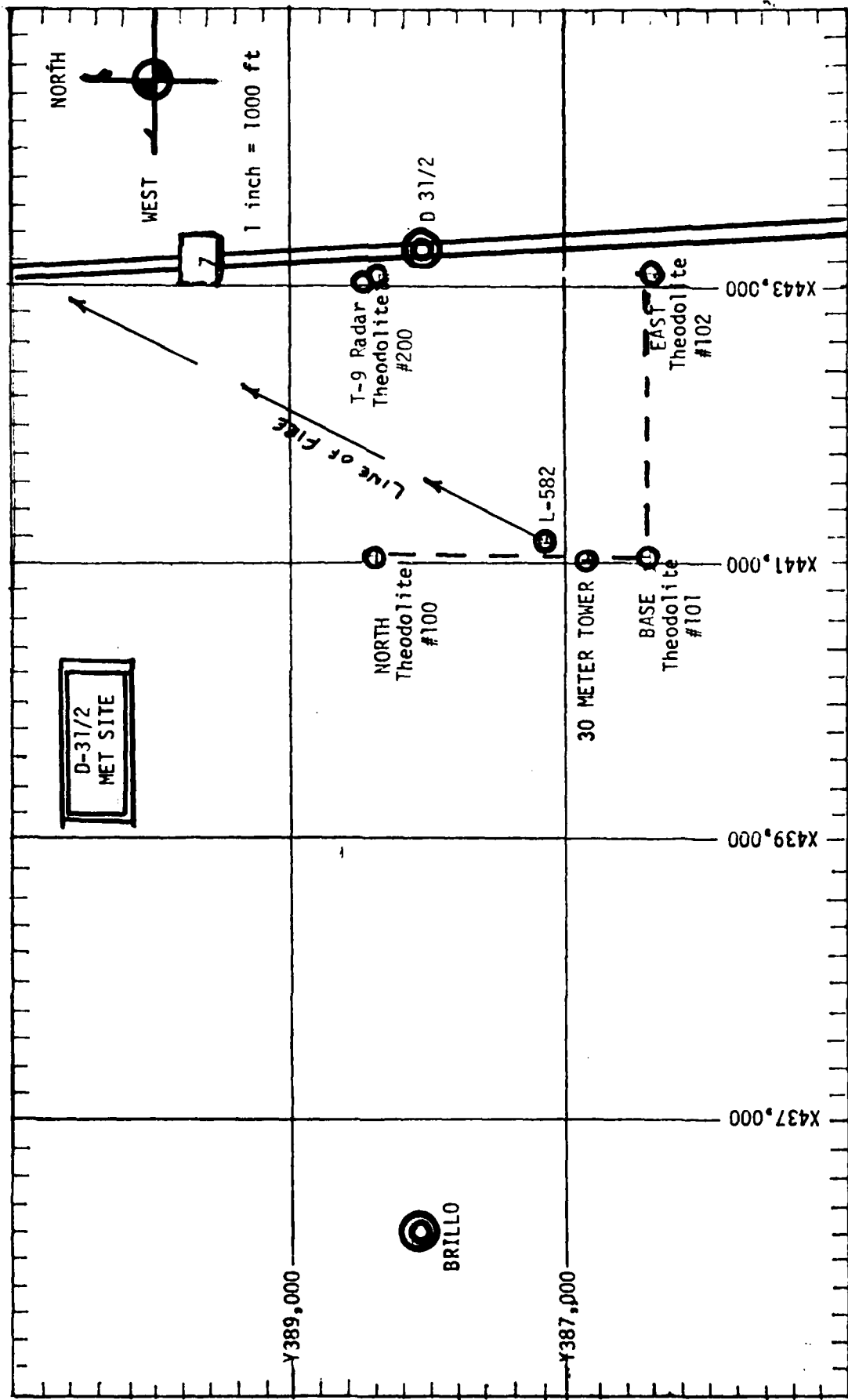
E-28 0510 MDT
NW-30 0600 MDT
E-28 0745 MDT
NW-30 0845 MDT



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Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A	23

WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

TABLE <u>1</u>										
STATION <u>D 3 1/2</u>										
DATE <u>14</u>		<u>June</u>		<u>82</u>		Y= <u>441,121.6</u>		Y= <u>387,107.8</u> H= <u>4005.2</u>		
TIME	MO	DAY	HR	MIN	SEC	TEMPERATURE OF	DEW POINT OF	RELATIVE HUMIDITY	WIND	VISIBILITY
<u>0805</u>	<u>I</u>					<u>25.0</u>	<u>13.1</u>	<u>48</u>	<u>1014</u>	<u>50</u>
<u>0921</u>	<u>I</u>					<u>28.3</u>	<u>6.3</u>	<u>25</u>	<u>1002</u>	<u>50</u>

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER		2nd LAYER		3rd LAYER		
	AMT	TYPE	AMT	TYPE	AMT	TYPE	

PSYCHROMETRIC COMPUTATION

TIME:	0850	0921
DRY BULB TEMP.	25.0	28.3
WET BULB TEMP.	17.1	15.0
WET BULB DEPR.	7.9	13.3
DEW POINT	13.1	6.3
RELATIVE HUMID.	48	25

TABLE 2 ANEMOMETER DATA 60 AND 90 FEET LEVELS OF 30 METER TOWER
 $X = 441,013.71$ $Y = 386,849.19$ $H = 4,004.30$ (BASE)

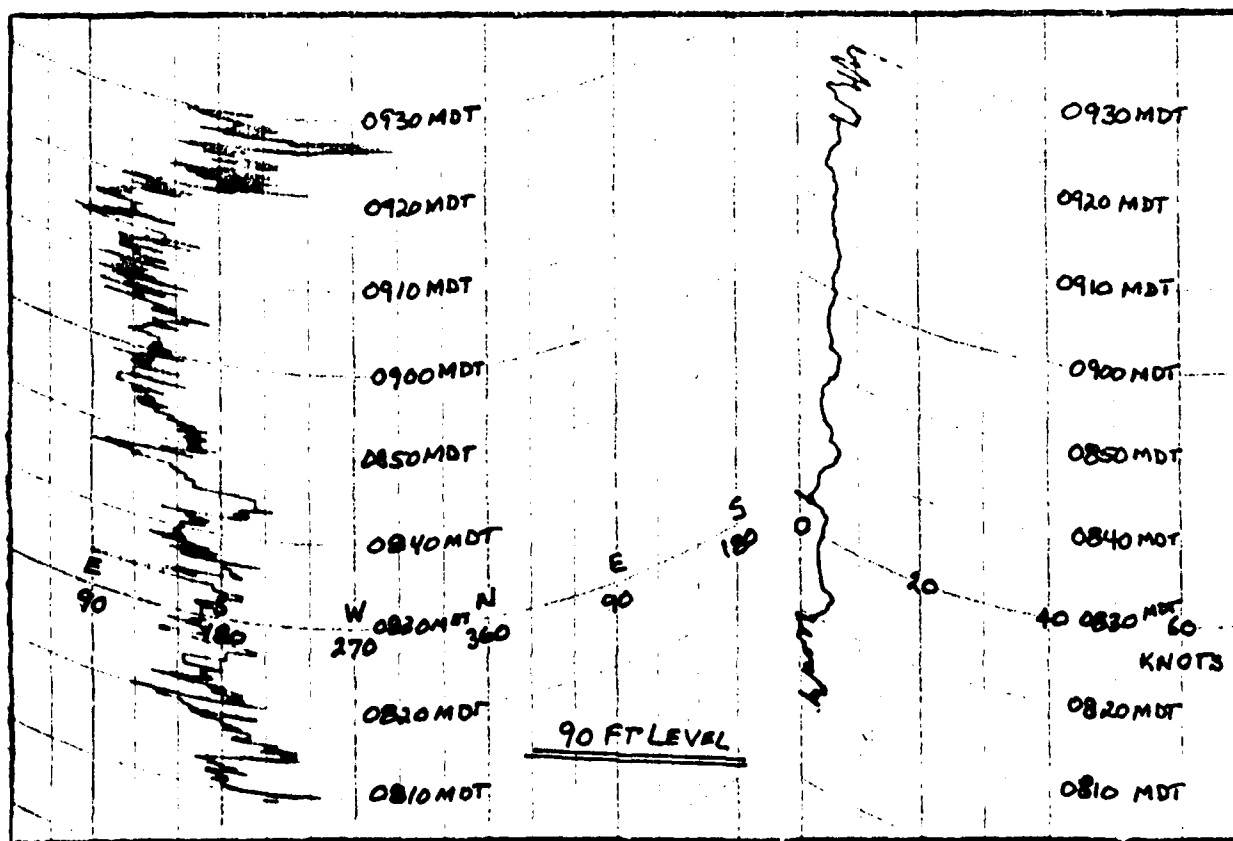
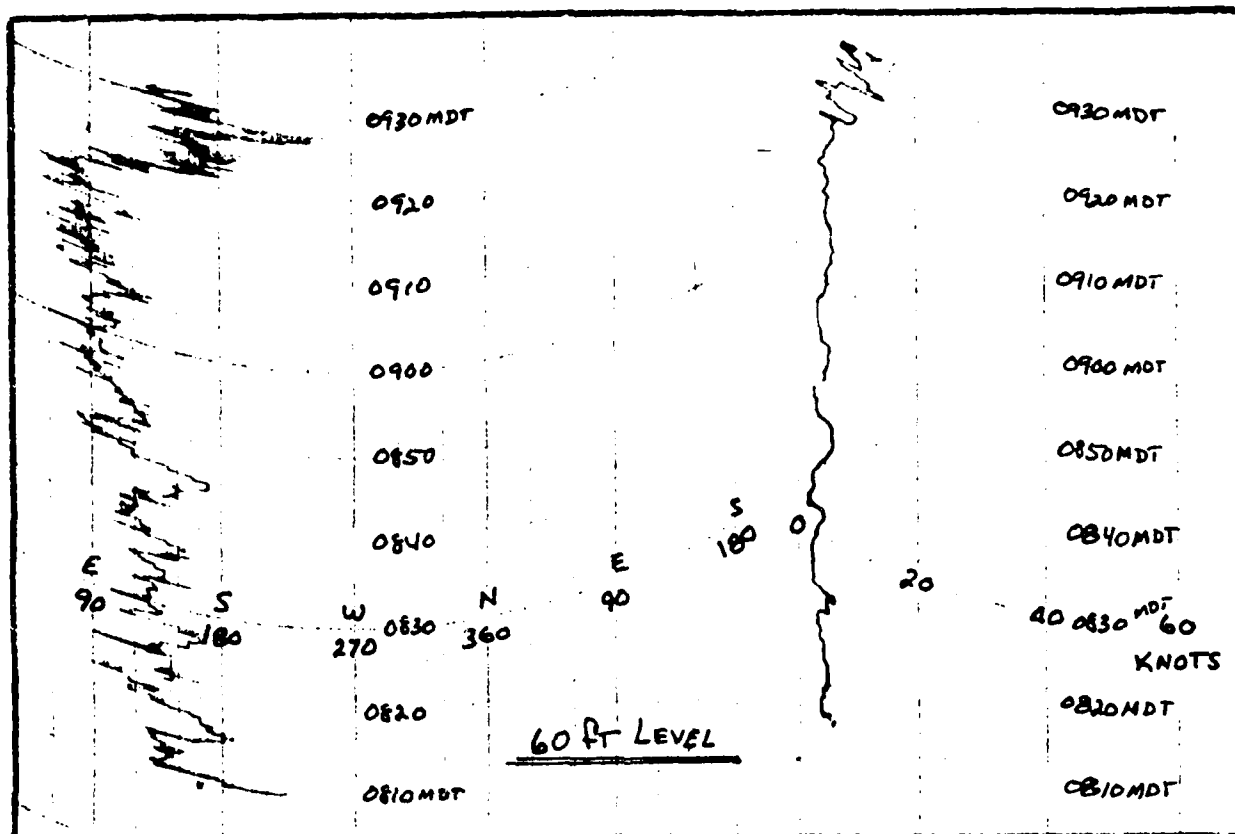


TABLE 3

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 14 June 1982

SITE: D 3½

TIME: 0850 MDT

WSTM COORDINATES:

X= 441,053.12

Y= 386,316.94

H= 4,008.31

SITE: DEAD HORSE

TIME 0850 MDT

WSTM COORDINATES:

X= 519,982.11

Y= 490,249.23

H= 4,133.12

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	110	05
150	138	06
210	147	05
270	162	04
330	186	03
390	215	04
500	241	08
650	224	13
800	225	15
950	229	18
1150	237	21
1350	234	22
1550	231	24
1750	233	24
2000	228	26

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	200	08
150	195	10
210	190	12
270	184	14
330	179	16
390	182	18
500	189	23
650	205	24
800	213	27
950	216	30
1150	221	30
1350	225	31
1550	227	31
1750	225	32
2000	225	33

TABLE 4

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 14 June 1982

SITE: D 3½

TIME: 0920 MDT

WSM COORDINATES:

X= 441,053.12

Y= 386,316.94

H= 4,008.31

SITE: DEAD HORSE

TIME: 0925 MDT

WSM COORDINATES:

X= 519,982.11

Y= 490,249.23

H= 4,133.12

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	115	09
150	138	09
210	146	10
270	153	10
330	159	09
390	168	07
500	192	06
650	238	08
800	256	13
950	255	15
1150	245	17
1350	236	19
1550	239	23
1750	229	25
2000	222	26

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	240	10
150	200	18
210	196	20
270	195	20
330	194	20
390	195	21
500	198	22
650	206	23
800	215	27
950	218	28
1150	224	26
1350	230	28
1550	229	26
1750	223	30
2000	220	33

TABLE-5

AIMING AND T-TIME COMPUTER MET MESSAGES
14 June 1982

E-28 0510 MDT	NW-30 0600 MDT
METCM1329064	METCM1329065
141120119878	141200122874
00391008 29350878	00427003 29350874
01298020 29380868	01330018 29410864
02288023 29430843	02324016 29540839
03367023 29370805	03389016 29440801
04449021 29130759	04442018 29020756
05456020 28660716	05445018 28570712
06406018 28260674	06401020 28130671
07370019 27920634	07380024 27760631
08390023 27620597	08395028 27580593
09396051 27160561	09398044 27180558
10391047 26750526	10395043 26750524
11390041 26310494	11400043 26350491
12422044 25750447	12422043 25800445
13450041 25110391	13448044 25070389
14456043 24280341	14453045 24320339
15468040 23450296	15465045 23510294
16477051 22660255	16476053 22720254
17484063 21890219	17481073 21980218
18503066 21490187	18504068 21670187
19499053 21100160	19505054 21250159
20479045 20850136	20487043 20900136
21464045 20620115	21472037 20740115
22505013 20760098	22474025 20760098
23459015 20760083	23559006 20830083
24455009 21030071	24601003 21050071
25128010 21480060	25137007 21400060
26189011 21720051	26186010 21780051

TABLE-5 cont'd

AIMING AND T-TIME COMPUTER MET MESSAGES CONT'D
14 June 1982

E-28 0510 MDT	NW-30 0845 MDT
METCM1329064	METCM1329065
141380119878	141480122875
00391010 29430878	00427005 29800875
01291018 29480868	01301013 29880865
02334019 29620843	02351010 29710840
03412019 29520805	03425014 29330802
04409022 29060760	04400022 28870757
05400023 28580716	05406027 28440713
06410026 28210674	06398029 28080671
07408026 27960635	07415031 27800631
08415029 27620597	08420033 27650594
09414036 27240561	09415034 27360558
10407038 26890527	10416033 26940524
11409043 26560494	11421036 26500492
12426045 25940448	12427038 25840446
13444050 25260392	13450043 25120390
14455047 24510342	14463048 24360340
15458048 23690297	15464051 23560295
16468061 22950257	16479059 22830255
17486071 22310221	17495070 22260219
18497070 21840189	18400058 21820188
19508052 21430162	19497033 21340160
20472042 20860138	20479037 20830137
21481045 20840117	21484038 20740116
22513012 21180100	22502026 21060099
23478006 20990085	23478008 20870084
24587001 21160072	24189005 21150071
25120008 21510062	25170006 21560061
26214007 21780053	26162007 21880052

STATION ALTITUDE 3912.75 FEET MSL
14 JUNE 82 0510 MDT
ASCENSION NO. 56

SIGNIFICANT LEVEL DATA
16502-20000
L-28

GEODLTIC COORDINATES
32.89927 LAT DEG
106.40591 LON DEG

TABLE-6

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT
877.7	3912.7	18.1	13.0	75.0
861.0	4454.9	18.5	13.0	73.0
850.0	4818.8	19.4	14.0	74.0
821.4	5785.8	17.7	11.9	89.0
817.5	5919.8	17.5	11.3	67.0
800.8	6502.2	19.8	4.7	37.0
792.0	6814.8	19.8	3.1	33.0
744.0	8569.9	15.6	-1.9	30.0
700.0	10254.0	10.8	-4.0	35.0
633.0	12982.1	5.3	-13.0	24.0
606.4	14131.3	3.9	-16.2	18.0
554.4	16490.9	-2.7	-19.7	36.0
518.8	18214.8	-6.5	-26.2	19.0
512.4	18533.1	-7.5	-27.1	19.0
500.0	19158.0	-9.4	-28.7	19.0
455.8	21486.7	-14.7	-32.1	21.0
421.6	23410.2	-18.8	-32.3	29.0
414.5	23830.7	-17.8	-32.7	28.0
400.0	24700.6	-20.5	-34.0	27.0
300.0	31407.1	-37.8	-49.4	28.0
250.0	35505.2	-49.3		
220.2	36215.8	-54.3		
200.0	40235.5	-57.0		
188.5	41466.7	-58.5		
170.4	42492.9	-58.1		
150.0	46158.2	-60.0		
138.4	47782.8	-64.3		
136.8	48017.9	-63.4		
122.2	50287.1	-66.6		
118.4	50915.8	-67.7		
114.0	51607.7	-66.5		
103.4	53618.5	-66.5		
100.0	54289.5	-64.5		
80.4	58677.9	-65.6		
74.4	60238.9	-64.4		
73.2	60508.6	-62.5		
70.0	61479.7	-62.3		
62.5	63801.8	-60.3		
57.6	65501.9	-55.5		
50.0	68479.9	-55.8		

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 62 0510 MDT
 ASCENSION 110. 06

SIGHTING ALT LEVEL DATA
 1650290000
 L-28

GEODETIC COORDINATES
 32.09927 LAT DEG
 106.40591 LONG DEG

TABLE-6 cont'd

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
35.2	75009.2	-53.2		
30.0	79350.5	-47.8		
27.3	81423.8	-46.0		
23.4	84012.7	-46.6		
20.0	88295.2	-42.1		

STATION ALTITUDE 3912.75 FEET MSL
14 JUNE 62 0510 MDT
ASCENSION NO. 06

UPPER AIR DATA
1650290000
L-28

TABLE-7

GEODETIC COORDINATES
32.64927 LAT DEG
106.40591 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND MNOTS	WIND DIRECTION LOG REL. (IN)	WIND DATA SPEED MNOTS	INDEX OF REFRACTION
3912.7	877.7	18.1	13.0	75.0	1042.0	667.1	220.0	0.0	1.000302
4000.0	875.0	18.2	13.0	74.7	1039.5	667.2	217.0	0.5	1.000301
4500.0	859.6	18.6	13.7	73.1	1019.5	667.8	200.5	11.5	1.000297
5000.0	844.6	19.1	14.1	73.1	999.5	668.4	202.9	14.8	1.000294
5500.0	829.8	19.2	12.7	70.5	985.4	667.2	199.5	18.1	1.000285
6000.0	815.2	17.8	10.7	62.9	970.2	668.5	197.2	21.4	1.000274
6500.0	800.9	19.8	4.7	37.1	946.5	668.1	210.2	20.9	1.000249
7000.0	780.8	19.4	2.0	32.7	933.7	667.5	229.2	21.1	1.000241
7500.0	772.9	18.2	1.1	31.0	921.5	668.0	241.9	20.7	1.000235
8000.0	759.3	17.0	-2.3	31.0	909.0	668.5	255.0	20.7	1.000230
8500.0	745.9	15.8	-1.7	30.1	896.9	668.1	257.2	20.9	1.000224
9000.0	732.5	14.4	-2.4	31.3	885.2	668.5	259.0	21.0	1.000221
9500.0	719.4	12.9	-3.0	32.8	873.7	659.8	255.5	20.6	1.000217
10000.0	706.5	11.5	-3.7	34.2	862.4	658.1	250.7	20.2	1.000214
10500.0	693.7	10.3	-4.8	34.0	850.0	658.7	242.1	19.0	1.000210
11000.0	681.0	9.3	-6.5	32.0	838.2	658.4	232.0	18.4	1.000205
11500.0	668.6	8.3	-8.2	30.0	826.0	654.2	221.5	18.2	1.000200
12000.0	656.3	7.3	-10.0	28.0	814.0	652.9	210.0	18.6	1.000195
12500.0	644.4	6.3	-11.8	25.9	802.2	651.7	210.5	18.6	1.000191
13000.0	632.6	5.3	-13.7	23.9	790.5	650.5	210.4	18.5	1.000188
13500.0	620.9	4.7	-15.6	21.3	777.7	649.7	214.5	19.8	1.000182
14000.0	609.4	4.1	-17.6	18.7	765.1	648.9	210.5	21.3	1.000178
14500.0	598.0	2.9	-17.4	20.8	754.0	647.0	220.4	20.5	1.000170
15000.0	585.8	1.5	-16.6	24.6	743.5	646.0	221.2	36.9	1.000174
15500.0	573.7	.1	-16.0	28.4	733.2	644.5	221.9	42.0	1.000172
16000.0	564.9	-1.3	-15.8	32.2	723.1	642.7	222.4	40.4	1.000170
16500.0	554.3	-2.7	-15.7	36.0	713.2	641.1	221.0	45.6	1.000168
17000.0	543.7	-3.8	-14.4	31.0	702.0	639.7	221.1	44.0	1.000164
17500.0	532.3	-4.9	-21.4	26.1	692.1	638.5	220.4	46.3	1.000160
18000.0	523.1	-6.0	-24.7	21.1	681.0	638.9	219.0	47.0	1.000156
18500.0	513.1	-7.4	-27.0	19.0	672.2	638.2	219.4	45.5	1.000153
19000.0	503.1	-8.9	-28.3	19.0	663.0	638.4	219.5	43.4	1.000151
19500.0	493.2	-10.2	-29.2	19.3	653.1	638.9	219.7	40.5	1.000148
20000.0	483.5	-11.3	-29.9	19.7	643.1	638.5	221.9	39.4	1.000146
20500.0	474.0	-12.5	-30.6	20.2	633.2	629.1	223.4	39.7	1.000144
21000.0	464.7	-13.6	-31.4	20.6	623.5	627.6	229.4	41.7	1.000141
21500.0	455.6	-14.7	-32.1	21.1	613.9	628.4	233.2	44.2	1.000139
22000.0	446.4	-15.8	-32.6	23.1	604.1	628.1	237.7	44.5	1.000137
22500.0	437.5	-16.9	-32.1	25.2	594.4	628.6	242.0	45.1	1.000135
23000.0	428.7	-17.9	-32.2	27.3	585.0	628.5	245.2	45.2	1.000133

STATION ALTITUDE 3912.75 FEET MSL
14 JUNE 82
ASCENSION NO. 66

UPPER AIR DATA
1650290000
L-28

GEODETIC COORDINATES
32.89927 LAT DEG
106.40591 LON DEG

TABLE-7 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DLPPOINT CENTIGRADE	REL. HUMID. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/SEC	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES (TN)	SPEED KNOTS	
23500.0	420.1	-18.8	-32.4	28.8	575.2	621.4	248.3	45.4	1.000130
24000.0	411.6	-19.2	-33.1	27.8	564.4	621.0	250.2	44.7	1.000128
24500.0	403.3	-20.2	-34.2	27.2	555.2	619.7	252.0	43.9	1.000126
25000.0	394.9	-21.4	-35.3	27.0	546.3	618.3	253.2	42.9	1.000123
25500.0	386.6	-22.6	-36.4	27.1	537.3	616.7	254.3	41.8	1.000121
26000.0	378.5	-23.9	-37.5	27.2	528.9	615.1	254.2	41.3	1.000119
26500.0	370.5	-25.2	-38.5	27.3	520.4	613.5	253.5	41.1	1.000117
27000.0	362.7	-26.4	-39.6	27.3	512.1	612.0	254.1	41.3	1.000115
27500.0	355.1	-27.7	-40.7	27.4	504.0	610.4	255.2	41.7	1.000113
28000.0	347.7	-29.0	-41.8	27.5	495.9	608.8	256.7	42.1	1.000111
28500.0	340.3	-30.3	-42.9	27.6	488.1	607.2	258.3	42.5	1.000110
29000.0	333.2	-31.5	-44.0	27.6	480.3	605.6	259.9	42.0	1.000108
29500.0	326.2	-32.8	-45.1	27.7	472.7	604.0	259.2	41.1	1.000106
30000.0	319.3	-34.1	-46.2	27.8	465.2	602.4	259.5	39.7	1.000104
30500.0	312.6	-35.3	-47.3	27.9	457.9	600.8	259.0	38.2	1.000103
31000.0	306.0	-36.6	-48.4	27.9	450.7	599.2	261.2	37.8	1.000101
31500.0	299.6	-37.9	-49.6	27.8**	443.5	597.6	263.2	38.0	1.000099
32000.0	292.9	-39.3	-52.0	24.3**	436.3	595.7	264.9	38.7	1.000098
32500.0	286.3	-40.7	-54.5	20.8**	429.2	593.9	266.4	39.5	1.000096
33000.0	279.9	-42.2	-57.2	17.4**	422.2	592.1	268.1	42.3	1.000094
33500.0	273.7	-43.6	-60.1	13.9**	415.3	590.3	265.3	45.4	1.000093
34000.0	267.6	-45.0	-63.4	10.4**	408.0	588.4	268.1	48.1	1.000091
34500.0	261.6	-46.4	-67.5	7.0**	402.0	586.0	268.7	50.7	1.000090
35000.0	255.8	-47.9	-73.3	3.5**	395.3	584.7	267.9	51.9	1.000088
35500.0	250.1	-49.3	-79.5	.0**	389.1	582.9	269.3	52.6	1.000087
36000.0	244.3	-50.2			381.7	581.7	269.9	54.4	1.000085
36500.0	238.6	-51.1			374.4	580.5	270.0	56.7	1.000083
37000.0	233.1	-52.1			367.3	579.3	270.7	58.1	1.000082
37500.0	227.7	-53.0			360.3	578.1	271.3	59.1	1.000080
38000.0	222.4	-53.9			353.4	576.9	272.6	60.7	1.000079
38500.0	217.2	-54.7			346.4	575.8	273.7	62.5	1.000077
39000.0	212.1	-55.3			339.3	574.9	274.6	64.9	1.000076
39500.0	207.1	-56.0			332.3	574.1	275.9	67.6	1.000074
40000.0	202.3	-56.7			325.3	573.2	277.3	68.3	1.000072
40500.0	197.5	-57.3			318.7	572.3	279.1	67.7	1.000071
41000.0	192.8	-57.9			312.0	571.5	280.7	66.6	1.000069
41500.0	188.2	-58.5			305.4	570.8	282.4	65.3	1.000068
42000.0	183.7	-58.3			297.9	571.0	283.9	64.0	1.000066
42500.0	179.3	-58.1			290.5	571.3	285.1	62.9	1.000065
43000.0	175.0	-58.9			284.6	570.2	286.1	61.7	1.000063

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3912.75 FEET MSL
14 JUNE 62
ASCENDING 10. 00 0510 MDT

UPPER AIR DATA
1050290000
1-28

GEODETIC COORDINATES
32.09927 LAT DEG
106.40591 LONG DEG

TABLE-7 cont'd

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND M/SEC	WIND DIRECTION DEGREES (IN)	WIND SPEED KNOTS	INDEX OF REFRACTION
43500.0	170.6	-59.7		276.6	569.1	285.1	59.5	1.000062
44000.0	166.7	-60.5		273.1	568.1	284.1	57.3	1.000061
44500.0	162.7	-61.3		267.5	567.0	282.0	54.7	1.000060
45000.0	158.7	-62.1		262.0	565.9	279.5	52.2	1.000058
45500.0	154.9	-62.9		256.7	564.8	277.5	50.5	1.000057
46000.0	151.2	-63.7		251.5	563.8	275.7	49.6	1.000056
46500.0	147.5	-64.1		245.7	563.5	274.0	48.9	1.000055
47000.0	143.9	-64.2		239.6	563.2	272.7	48.8	1.000055
47500.0	140.4	-64.2		234.1	563.1	271.4	48.8	1.000052
48000.0	136.9	-63.5		227.5	564.1	269.0	48.4	1.000051
48500.0	133.6	-64.1		222.5	563.3	267.9	47.7	1.000050
49000.0	130.3	-64.8		217.6	562.4	266.0	47.0	1.000049
49500.0	127.1	-65.5		213.2	561.4	264.7	46.1	1.000047
50000.0	124.0	-66.2		208.7	560.4	263.5	45.3	1.000046
50500.0	120.9	-67.0		204.3	559.4	262.5	43.4	1.000045
51000.0	117.9	-67.6		199.6	558.0	263.0	40.3	1.000044
51500.0	115.0	-68.8		194.1	559.7	263.2	37.0	1.000043
52000.0	112.1	-68.5		189.0	560.0	264.6	32.2	1.000042
52500.0	109.4	-66.5		184.4	560.0	266.4	27.4	1.000041
53000.0	106.7	-66.5		179.6	560.0	269.5	22.0	1.000040
53500.0	104.0	-66.5		175.3	560.0	275.0	16.4	1.000039
54000.0	101.5	-65.4		170.1	561.6	283.0	12.0	1.000038
54500.0	99.0	-64.6		165.3	562.7	274.2	16.3	1.000037
55000.0	96.5	-64.7		161.3	562.5	269.1	20.8	1.000036
55500.0	94.2	-64.8		157.4	562.3	265.2	27.1	1.000035
56000.0	91.8	-64.9		153.7	562.2	262.4	35.1	1.000034
56500.0	89.6	-65.1		150.0	562.0	260.0	43.3	1.000033
57000.0	87.4	-65.2		146.4	561.8	259.5	51.8	1.000033
57500.0	85.2	-65.3		142.5	561.7	258.7	60.4	1.000032
58000.0	83.2	-65.4		139.3	561.5	258.1	67.0	1.000031
58500.0	81.1	-65.6		136.1	561.3	257.7	69.3	1.000030
59000.0	79.1	-65.4		132.6	561.6	257.4	71.6	1.000030
59500.0	77.2	-65.0		129.2	562.1	257.2	61.0	1.000029
60000.0	75.3	-64.6		125.6	562.0	257.0	47.1	1.000028
60500.0	73.4	-62.9		121.7	564.9	256.0	33.6	1.000027
61000.0	71.7	-62.4		118.5	565.0	255.7	21.9	1.000026
61500.0	69.9	-62.3		115.5	565.7	252.0	10.0	1.000026
62000.0	68.2	-61.9		112.5	566.3	244.4	3.7	1.000025
62500.0	66.6	-61.4		109.6	566.9	109.6	1.4	1.000024
63000.0	65.0	-61.0		106.7	567.4	61.1	0.7	1.000024

STATION ALTITUDE 3,12.75 FEET MSL
14 JUNE 82 0510 MDT
ASCENSION NO. 06

UPPER AIR DATA
1050290000
L-28
TABLE-7 cont'd

GEODETIC COORDINATES
32.8927 LAT UEG
106.40591 LONG UEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND METERS PER SECOND	WIND DATA DIRECTION (IN) SPEED (KNOTS)	INDEX OF REFRACTION
63500.0	62.4	-40.6		103.9	563.0	77.5	1.000023
64000.0	61.9	-39.7		101.1	569.1	70.7	1.000023
64500.0	60.4	-38.3		96.0	571.0	60.5	1.000022
65000.0	59.0	-36.9		93.1	572.9	60.4	1.000021
65500.0	57.6	-35.5		92.2	574.7	70.4	1.000021
66000.0	56.3	-35.6		90.1	574.7	70.5	1.000020
66500.0	54.9	-35.6		86.0	574.0	70.0	1.000020
67000.0	53.6	-35.7		83.9	574.5	70.0	1.000019
67500.0	52.4	-35.7		83.9	574.5	70.0	1.000019
68000.0	51.2	-35.8		82.0	574.4	70.5	1.000018
68500.0	50.0	-35.8		80.1	574.4	70.5	1.000018
69000.0	48.8	-35.6		78.1	574.0	70.1	1.000017
69500.0	47.6	-35.4		76.2	574.0	70.0	1.000017
70000.0	46.5	-35.3		74.4	573.1	70.0	1.000017
70500.0	45.4	-35.1		72.0	573.5	70.0	1.000016
71000.0	44.4	-34.9		70.9	573.5	73.0	1.000016
71500.0	43.4	-34.7		69.1	573.7	71.0	1.000015
72000.0	42.3	-34.6		67.5	570.0	69.1	1.000015
72500.0	41.4	-34.4		65.9	570.2	68.7	1.000015
73000.0	40.4	-34.2		64.3	570.4	68.2	1.000014
73500.0	39.4	-34.0		62.7	570.7	72.4	1.000014
74000.0	38.5	-33.9		61.2	570.9	78.0	1.000014
74500.0	37.6	-33.7		59.7	577.1	85.4	1.000013
75000.0	36.7	-33.5		58.3	577.4	95.5	1.000013
75500.0	35.9	-33.3		56.9	577.0	105.0	1.000013
76000.0	35.1	-33.1		55.5	578.0	111.0	1.000012
76500.0	34.2	-32.3		54.0	579.0	112.1	1.000012
77000.0	33.5	-31.5		52.0	580.0	112.5	1.000012
77500.0	32.7	-30.7		51.2	581.0	112.0	1.000011
78000.0	31.9	-29.9		49.9	582.1	110.0	1.000011
78500.0	31.2	-29.1		48.5	583.1	109.4	1.000011
79000.0	30.5	-28.4		47.3	584.1	110.7	1.000011
79500.0	29.8	-27.7		46.0	585.0	114.2	1.000010
80000.0	29.1	-27.2		44.9	585.5	110.0	1.000010
80500.0	28.5	-26.8		43.6	586.1	120.0	1.000010
81000.0	27.8	-26.4		42.0	585.7	120.0	1.000010
81500.0	27.2	-26.0		41.7	587.1	121.1	1.000009
82000.0	26.6	-25.1		40.8	587.0	119.5	1.000009
82500.0	26.0	-24.2		39.9	586.9	116.0	1.000009
83000.0	25.4	-23.3		39.0	586.0	113.9	1.000009

STATION ALTITUDE 3,12.75 FLF1 MSL
 14 JUNE 62 0510 MDT
 ASCENSION NO. 66

TEMPERATURE AIR DATA
 1050290000
 1-28

GEOMETRIC COORDINATES
 32.09927 LAT DEG
 106.40591 LONG DEG

TABLE-7 cont'd

GEOMETRIC ALTITUDE MSL FELT	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND METER	WIND DATA DIRECTION (DEGREES TRUE) SPEED (KNOTS)	INDEX OF REFRACTION
03500.0	24.8	-46.4		36.2	580.7	112.1 8.4	1.0000006
04000.0	24.3	-46.5		37.3	580.6	111.0 9.4	1.0000008
04500.0	23.7	-46.5		36.5	580.4	110.1 10.5	1.0000008
05000.0	23.2	-46.4		35.6	580.7	111.4 11.1	1.0000008
05500.0	22.7	-45.7		34.7	587.5	113.0 11.5	1.0000006
06000.0	22.2	-45.1		33.9	580.4		1.0000008
06500.0	21.7	-44.4		33.0	589.2		1.0000007
07000.0	21.2	-43.8		32.2	590.0		1.0000007
07500.0	20.7	-43.1		31.4	590.9		1.0000007
08000.0	20.3	-42.5		30.6	591.7		1.0000007

STATION ALTITUDE 3912.75 FEET MSL
14 JUL 62 0510 MDT
ASCENSION I.O. 66

MANDATORY LEVELS
1650290000
E-2R

GEODETIC COORDINATES
32.89927 LAT DEG
106.40591 LONG DEG

TABLE-8

PRESSURE GEOPOTENTIAL MILLIBARS	FEET	TEMPERATURE AIR DEGREE CENTIGRADE	ALL HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4815.	19.4	74.	204.0	13.6
800.0	6525.	19.8	37.	211.2	20.9
750.0	8339.	16.1	30.	250.4	20.8
700.0	10244.	10.8	35.	240.0	19.6
650.0	12256.	6.7	27.	210.5	18.6
600.0	14398.	3.1	20.	220.1	27.0
550.0	16083.	-3.2	34.	221.5	45.2
500.0	19132.	-9.4	19.	219.4	42.6
450.0	21773.	-15.4	22.	235.0	44.3
400.0	24660.	-20.6	27.	252.0	43.6
350.0	27851.	-28.6	27.	250.4	42.0
300.0	31406.	-37.8	20.	203.0	30.0
250.0	35429.	-49.3		269.3	52.6
200.0	40140.	-57.0		278.1	60.0
175.0	42899.	-58.9		280.1	61.8
150.0	46035.	-64.0		275.2	49.4
125.0	49693.	-66.0		264.0	45.6
100.0	54124.	-64.5		277.7	14.3
80.0	58586.	-65.5		257.0	70.4
70.0	61271.	-62.3		253.2	11.2
60.0	64418.	-57.9		76.5	40.0
50.0	68225.	-55.8		76.3	17.2
40.0	72903.	-54.1		66.3	11.6
30.0	79019.	-47.8		112.9	10.7
25.0	82990.	-46.3		112.5	8.0
20.0	87883.	-42.1			

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4010.40 FEET MSL
14 JUNE 62 0600 MDT
ASCENSION NO. 10

SIGNIFICANT LEVEL DATA
10502.0010
11W 30

GEODETIC COORDINATES
32.88497 LAT DEG
100.49714 LON DEG

TABLE-9

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
873.9	4010.4	18.4	13.3	72.0
869.0	4169.3	19.1	13.9	72.0
850.0	4793.0	19.1	13.1	68.0
836.1	5263.2	21.7	7.5	40.0
819.2	5844.9	21.7	3.9	31.0
770.6	7573.6	17.8	-2.9	25.0
700.0	10236.2	10.5	-5.5	32.0
630.3	13069.4	3.5	-13.3	26.0
612.0	13855.1	3.6	-17.2	20.0
585.5	15032.2	2.0	-19.2	19.0
550.0	16677.0	-2.5	-22.9	19.0
500.0	19133.4	-8.9	-28.2	19.0
460.3	21223.0	-13.2	-30.3	22.0
413.8	23858.9	-19.5	-33.3	28.0
400.0	24686.0	-20.9	-34.9	27.0
363.0	27020.6	-26.4	-39.4	28.0
328.4	29378.7	-31.6	-44.3	27.0
300.0	31461.6	-37.1	-48.6	20.0
250.0	35527.5	-46.8		
218.1	38462.0	-53.9		
200.0	40286.3	-56.0		
187.0	41692.4	-56.6		
181.8	42282.5	-56.0		
167.2	44026.6	-58.7		
150.0	46251.9	-63.0		
140.2	47617.7	-64.7		
127.5	49533.2	-63.9		
112.1	52119.3	-66.5		
100.0	54394.7	-66.8		
97.3	54948.0	-64.2		
88.5	56857.1	-65.4		
74.4	60354.7	-64.0		
70.0	61593.3	-62.1		
62.8	63815.8	-60.8		
54.2	66806.6	-55.3		
50.0	68501.0	-55.3		
31.8	76198.8	-52.0		
30.0	79454.2	-49.5		

STATION ALTITUDE 1010.40 FEET MSL
14 JUNE 62
ASCENSION NO. 10 0600 MDT

UPPER AIR DATA
1650220010
1W 30

TABLE-10

GEOGRAPHIC COORDINATES
32.00497 LAT DEG
106.49714 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/SEC	WIND DIRECTION DEGREES (T)	WIND SPEED KNOTS	INDEX OF REFRACTION
4010.4	875.9	18.4	13.3	72.0	1037.3	667.4	240.0	2.9	1.000299
4500.0	850.9	19.1	13.5	69.9	1010.9	660.3	215.0	5.9	1.000295
5000.0	843.9	20.2	11.1	55.7	990.1	669.3	205.0	9.3	1.000280
5500.0	829.2	21.7	6.1	36.3	975.5	670.4	204.4	12.7	1.000259
6000.0	814.7	21.3	3.3	30.5	960.5	669.8	203.2	14.8	1.000248
6500.0	800.4	20.2	1.5	28.7	947.4	660.3	219.5	15.6	1.000241
7000.0	780.4	19.1	-0.3	27.0	934.7	660.9	229.7	16.2	1.000235
7500.0	772.6	18.0	-2.2	25.3	922.2	665.0	239.1	16.9	1.000229
8000.0	750.8	16.6	-2.9	26.1	910.0	664.0	245.7	17.1	1.000225
8500.0	745.3	15.3	-3.4	27.4	898.0	662.4	251.0	17.3	1.000222
9000.0	731.9	13.9	-3.9	28.7	880.2	660.8	254.0	17.3	1.000218
9500.0	715.8	12.5	-4.5	30.1	874.0	659.2	250.9	17.2	1.000215
10000.0	700.0	11.1	-5.2	31.4	863.2	657.0	250.0	17.7	1.000212
10500.0	693.2	9.8	-6.2	31.6	851.5	650.1	253.4	18.4	1.000208
11000.0	680.5	8.6	-7.6	30.9	839.7	654.0	253.0	19.3	1.000204
11500.0	660.0	7.4	-8.9	30.2	820.1	653.1	224.3	20.4	1.000199
12000.0	655.8	6.1	-10.3	29.5	816.0	651.0	210.4	20.5	1.000195
12500.0	643.7	4.9	-11.7	28.8	805.3	650.1	214.4	21.4	1.000192
13000.0	631.9	3.7	-13.1	28.1	794.2	640.0	214.2	23.8	1.000188
13500.0	620.2	3.6	-15.3	23.6	779.9	640.4	210.4	27.1	1.000183
14000.0	600.7	3.4	-17.5	19.9	760.0	640.2	220.2	31.4	1.000178
14500.0	597.3	2.7	-18.3	19.5	753.6	647.4	221.0	33.7	1.000175
15000.0	580.2	2.0	-19.1	19.0	741.4	640.5	222.8	35.3	1.000172
15500.0	575.2	.7	-20.2	19.0	731.0	643.0	223.1	35.5	1.000169
16000.0	564.3	-0.6	-21.4	19.0	720.5	643.3	223.2	36.3	1.000166
16500.0	555.7	-2.0	-22.5	19.0	711.0	641.7	223.1	38.0	1.000164
17000.0	543.2	-3.3	-23.6	19.0	700.9	640.1	223.0	40.1	1.000161
17500.0	532.7	-4.6	-24.7	19.0	690.0	630.0	222.9	42.6	1.000158
18000.0	522.5	-5.9	-25.8	19.0	680.0	637.0	222.9	43.0	1.000156
18500.0	512.4	-7.2	-26.9	19.0	671.0	635.4	222.0	42.5	1.000153
19000.0	502.6	-8.6	-28.0	19.0	661.4	633.0	223.0	42.7	1.000151
19500.0	492.8	-9.7	-28.6	19.5	651.2	632.5	224.9	42.9	1.000148
20000.0	483.1	-10.7	-29.1	20.2	641.0	631.3	220.7	43.2	1.000146
20500.0	473.7	-11.7	-29.6	21.0	630.9	630.0	220.0	43.5	1.000143
21000.0	464.4	-12.7	-30.1	21.7	621.0	620.0	220.0	43.3	1.000141
21500.0	455.2	-13.9	-30.6	22.6	611.3	627.4	233.4	42.8	1.000139
22000.0	440.1	-15.1	-31.1	23.8	601.9	620.0	230.5	42.8	1.000137
22500.0	437.2	-16.3	-31.7	24.0	592.0	624.5	240.4	43.4	1.000134
23000.0	420.4	-17.4	-32.2	26.0	583.5	623.1	244.3	44.3	1.000132
23500.0	419.8	-18.6	-32.9	27.2	574.5	621.0	240.0	45.1	1.000130

GEODTIC COORDINATES
32.00497 LAT DEG
106.49714 LONG DEG

UPPER AIR DATA
1050220010
NW 30

STATION ALTITUDE 4010.40 FLFT NSL
14 JUNE 62 0600 MDT
ASCENSION NO. 10

TABLE-10 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION SPEED KNOTS	INDEX OF REFRACTION
24000.0	411.4	-19.7	27.0	565.4	620.4	247.0	1.000128
24500.0	403.1	-20.6	27.2	555.0	619.2	249.2	1.000126
25000.0	394.8	-21.6	27.1	546.7	617.4	250.0	1.000124
25500.0	386.7	-22.8	27.3	538.0	615.5	252.1	1.000121
26000.0	378.7	-24.0	27.6	529.4	613.0	253.7	1.000119
26500.0	370.9	-25.2	27.8	521.0	610.5	254.1	1.000117
27000.0	363.3	-26.4	28.0	512.7	612.1	255.9	1.000115
27500.0	355.7	-27.5	27.8	504.2	610.7	255.6	1.000113
28000.0	348.2	-28.6	27.6	495.9	609.3	255.4	1.000111
28500.0	340.9	-29.7	27.4	487.0	607.9	255.6	1.000110
29000.0	333.7	-30.8	27.2	479.0	606.0	254.2	1.000108
29500.0	326.7	-31.9	27.1	471.7	605.1	255.7	1.000106
30000.0	319.7	-33.2	27.3	464.1	603.5	257.5	1.000104
30500.0	312.8	-34.6	27.5	456.7	601.8	258.9	1.000102
31000.0	306.1	-35.9	27.8	449.3	600.1	260.5	1.000101
31500.0	299.5	-37.2	27.7**	442.1	598.5	261.4	1.000099
32000.0	292.8	-38.4	24.3**	434.5	596.9	262.1	1.000097
32500.0	286.4	-39.6	20.8**	427.1	595.4	263.5	1.000095
33000.0	280.0	-40.8	17.4**	419.7	593.9	265.0	1.000094
33500.0	273.8	-42.0	14.0**	412.0	592.4	266.0	1.000092
34000.0	267.7	-43.2	10.5**	405.5	590.0	266.7	1.000090
34500.0	261.8	-44.3	7.1**	398.0	589.3	267.2	1.000089
35000.0	256.0	-45.5	3.6**	391.0	587.7	267.0	1.000087
35500.0	250.3	-46.7	2.2*	385.1	586.2	268.0	1.000086
36000.0	244.6	-47.9		378.3	584.6	268.5	1.000084
36500.0	238.9	-49.2		371.0	583.1	268.5	1.000083
37000.0	233.4	-50.4		365.0	581.5	268.7	1.000081
37500.0	228.1	-51.6		358.0	579.9	268.0	1.000080
38000.0	222.8	-52.8		352.3	578.3	269.0	1.000078
38500.0	217.7	-53.9		346.0	576.8	270.0	1.000077
39000.0	212.6	-54.5		339.8	576.0	272.4	1.000075
39500.0	207.6	-55.1		331.7	575.3	274.2	1.000074
40000.0	202.7	-55.7		324.8	574.5	275.9	1.000072
40500.0	197.0	-56.1		317.0	573.9	277.6	1.000071
41000.0	193.2	-56.4		310.7	573.5	279.4	1.000069
41500.0	189.3	-56.7		303.7	573.2	281.2	1.000068
42000.0	184.3	-56.4		296.1	573.6	283.1	1.000066
42500.0	179.9	-56.3		289.1	573.0	285.1	1.000064
43000.0	175.6	-57.1		283.2	572.6	287.2	1.000063
43500.0	171.5	-57.9		277.5	571.0	289.9	1.000062

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4010.40 FEET MSL
14 JUNE 62 0600 MDT
ASCENSION NO. 10

UPPER AIR DATA
1050220010
11W 30

TABLE-10 cont'd

GEOMETRIC COORDINATES
32.88497 LAT UEG
106.49714 LONG UEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KIOTS	WIND DATA DIRECTION DEGREES (IN)	WIND SPEED KIOTS	INDEX OF REFRACTION
44000.0	167.4	-58.7		271.9	570.0	200.0	59.2	1.000001
44500.0	163.4	-59.6		260.5	569.5	205.2	56.6	1.000059
45000.0	159.4	-60.6		261.3	560.0	202.7	54.0	1.000058
45500.0	155.6	-61.5		250.2	560.7	200.2	51.7	1.000057
46000.0	151.9	-62.5		251.1	563.4	270.4	50.3	1.000056
46500.0	148.2	-63.3		240.0	564.3	270.5	49.1	1.000055
47000.0	144.6	-63.9		240.7	563.5	275.0	47.9	1.000054
47500.0	141.0	-64.6		235.5	562.7	275.7	46.7	1.000052
48000.0	137.6	-64.5		229.7	562.7	275.4	45.3	1.000051
48500.0	134.2	-64.3		223.9	563.0	274.0	42.9	1.000050
49000.0	130.9	-64.1		218.2	563.2	273.0	40.4	1.000049
49500.0	127.7	-63.9		212.0	563.5	272.0	38.7	1.000047
50000.0	124.6	-64.4		207.9	562.9	270.0	37.1	1.000046
50500.0	121.5	-64.9		203.2	562.2	268.5	36.2	1.000045
51000.0	118.5	-65.4		198.7	561.6	267.7	36.0	1.000044
51500.0	115.6	-65.9		194.3	560.9	266.0	36.2	1.000043
52000.0	112.8	-66.4		190.0	560.2	265.0	37.4	1.000042
52500.0	110.0	-66.6		185.4	560.0	264.7	38.6	1.000041
53000.0	107.3	-66.6		180.9	559.9	264.5	37.8	1.000040
53500.0	104.6	-66.7		176.5	559.8	264.2	36.9	1.000039
54000.0	102.0	-66.7		172.2	559.7	264.4	34.7	1.000038
54500.0	99.5	-66.3		167.6	560.3	265.0	30.1	1.000037
55000.0	97.0	-64.2		161.6	563.1	267.0	25.6	1.000036
55500.0	94.7	-64.5		158.1	562.7	271.3	20.5	1.000035
56000.0	92.3	-64.9		154.5	562.2	270.0	15.1	1.000034
56500.0	90.1	-65.2		150.9	561.6	293.5	10.2	1.000034
57000.0	87.9	-65.3		147.3	561.6	304.1	8.4	1.000033
57500.0	85.7	-65.1		143.0	561.9	314.0	7.3	1.000032
58000.0	83.6	-64.9		139.9	562.1	317.0	6.7	1.000031
58500.0	81.6	-64.7		136.4	562.4	309.4	6.5	1.000030
59000.0	79.6	-64.5		132.9	562.7	301.4	6.5	1.000030
59500.0	77.6	-64.3		129.5	562.9	301.4	6.4	1.000029
60000.0	75.7	-64.1		126.2	563.2	301.4	6.3	1.000028
60500.0	73.9	-63.8		122.9	563.7	305.0	5.5	1.000027
61000.0	72.1	-63.0		119.5	564.7	314.9	4.4	1.000027
61500.0	70.3	-62.2		116.2	565.0	333.1	3.3	1.000026
62000.0	68.6	-61.9		113.1	565.3	23.9	2.8	1.000025
62500.0	67.0	-61.6		110.3	565.7	58.9	4.4	1.000025
63000.0	65.4	-61.3		107.3	567.1	68.9	5.5	1.000024
63500.0	63.8	-61.0		104.7	567.5	73.0	5.1	1.000023

STATION ALTITUDE 4010.00 FEET MSL
14 JUNE 82
ASCENSION NO. 10

UPPER AIR DATA
105020010
1W 30

GEOGRAPHIC COORDINATES
32.60497 LAT DEG
100.49714 LONG DEG

TABLE-10 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND M/S	WIND DATA DIRECTION SPEED KNOTS	INDEX OF REFRACTION
64000.0	62.2	-60.5		102.0	560.1	77.3	1.000023
64500.0	60.8	-59.6		99.1	569.3	77.3	1.000022
65000.0	59.3	-58.7		96.4	570.5	77.3	1.000021
65500.0	57.9	-57.8		93.7	571.7	79.5	1.000021
66000.0	56.5	-56.9		91.1	572.9	82.0	1.000020
66500.0	55.2	-56.0		88.5	574.1	85.0	1.000020
67000.0	53.9	-55.3		86.2	575.0	92.0	1.000019
67500.0	52.6	-55.3		84.2	575.0	99.7	1.000019
68000.0	51.4	-55.3		82.2	575.0	105.3	1.000018
68500.0	50.2	-55.3		80.3	575.0	111.7	1.000018
69000.0	49.0	-55.2		78.3	575.2	117.0	1.000017
69500.0	47.9	-55.0		76.5	575.4	108.1	1.000017
70000.0	46.8	-54.8		74.6	575.7	96.0	1.000017
70500.0	45.7	-54.6		72.8	575.9	84.0	1.000016
71000.0	44.6	-54.5		71.1	576.1	73.9	1.000016
71500.0	43.6	-54.3		69.4	576.3	60.0	1.000015
72000.0	42.6	-54.1		67.7	576.0	50.5	1.000015
72500.0	41.6	-54.0		66.1	576.0	50.5	1.000015
73000.0	40.6	-53.8		64.5	577.0	59.5	1.000014
73500.0	39.7	-53.6		62.9	577.2	77.3	1.000014
74000.0	38.7	-53.4		61.4	577.5	84.4	1.000014
74500.0	37.8	-53.3		60.0	577.7	87.3	1.000013
75000.0	37.0	-53.1		58.5	577.9	86.0	1.000013
75500.0	36.1	-52.9		57.1	578.1	89.7	1.000013
76000.0	35.3	-52.8		55.7	578.4	92.5	1.000012
76500.0	34.4	-52.6		54.4	578.6	95.0	1.000012
77000.0	33.6	-52.4		53.1	578.8		1.000012
77500.0	32.9	-52.2		51.8	579.0		1.000012
78000.0	32.1	-52.1		50.6	579.3		1.000011
78500.0	31.4	-51.4		49.3	580.1		1.000011
79000.0	30.6	-50.4		47.9	581.4		1.000011

STATION ALTITUDE 4010.40 FEET MSL
14 JUNE 62
ASCENSION 40. 10 0600 MDT

MANDATORY LEVELS
16502200ZJUL
11W 30

GEODETIC COORDINATES
32.88497 LAT DEG
100.49714 LONG DEG

TABLE-11

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEW POINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4792.	19.1	13.1	60.	210.3	7.8
800.0	6513.	20.2	1.4	29.	219.0	15.6
750.0	8324.	15.7	-3.2	27.	249.0	17.2
700.0	10227.	10.5	-5.5	32.	247.2	10.0
650.0	12233.	5.6	-11.0	29.	215.0	20.0
600.0	14366.	2.9	-18.1	20.	221.5	33.2
550.0	16656.	-2.5	-22.9	19.	223.1	30.0
500.0	19107.	-8.9	-28.2	19.	224.1	42.7
450.0	21750.	-14.5	-30.9	23.	234.9	42.0
400.0	24646.	-20.9	-34.9	27.	249.7	45.5
350.0	27835.	-28.3	-41.2	28.	253.4	40.8
300.0	31400.	-37.1	-48.8	29.	261.3	42.5
250.0	35451.	-46.8			260.0	54.9
200.0	40190.	-56.0			270.0	71.3
175.0	42971.	-57.2			287.2	63.8
150.0	46129.	-63.0			277.5	49.7
125.0	49791.	-64.3			270.4	37.3
100.0	54232.	-66.8			265.4	31.3
80.0	58696.	-64.6			303.4	0.5
70.0	61384.	-62.1			330.4	3.1
60.0	64526.	-59.1			77.3	0.6
50.0	68325.	-55.3			112.5	0.4
40.0	73014.	-53.7			73.8	9.1
30.0	79116.	-49.5				

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

CLOUDLET COORDINATES
32.8927 LAT DEG
106.40591 LON DEG

SIGNIFICANT LEVEL DATA
1050240007
1-28

STATION ALTITUDE 3912.75 FEET MSL
14 JUNE 62 0745 MDT
ASCENSION NO. 67

TABLE-12

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
878.1	3912.7	19.1	14.0	76.0
875.2	4006.4	19.3	13.7	70.0
850.0	4835.8	20.8	12.5	59.0
830.1	5511.2	22.5	5.4	33.0
810.5	6192.4	21.6	5.6	31.0
700.0	10281.1	10.1	-3.2	39.0
670.3	11460.9	7.9	-9.5	28.0
652.1	12206.2	7.5	-12.0	22.0
582.1	15244.8	1.5	-19.0	20.0
547.1	16673.8	-2.6	-21.9	21.0
500.0	19202.3	-6.4	-26.0	20.0
435.0	22715.0	-16.0	-29.5	30.0
400.0	24780.6	-19.4	-34.0	26.0
355.2	27648.7	-26.0	-38.8	30.0
300.0	31595.1	-35.7	-45.0	30.0
284.0	32842.2	-38.8	-52.1	30.0
250.0	35686.6	-45.0	-53.7	30.0
210.4	39423.9	-52.1	-57.2	30.0
200.0	40501.4	-53.7	-61.9	30.0
167.5	44228.2	-57.2	-64.3	30.0
150.0	46504.2	-61.9	-65.9	30.0
141.9	47630.3	-64.3	-65.5	30.0
129.5	49467.9	-65.9	-63.8	30.0
125.7	50064.8	-65.5	-64.2	30.0
124.2	50306.6	-63.8	-65.7	30.0
120.4	50934.5	-64.2	-64.9	30.0
114.7	51910.1	-65.7	-64.1	30.0
111.1	52550.5	-64.9	-64.5	30.0
110.1	52732.8	-64.1	-61.9	30.0
107.9	53140.2	-64.5	-60.2	30.0
106.4	53424.2	-61.9	-60.3	30.0
104.3	53832.8	-60.2	-60.5	30.0
100.0	54699.0	-60.3	-61.4	30.0
88.3	57233.8	-60.5	-62.1	30.0
85.3	57920.2	-65.0	-57.9	30.0
81.5	58855.3	-61.4	-57.4	30.0
70.0	61904.7	-62.1	-53.7	30.0
63.3	64039.0	-57.9		
56.4	66445.3	-57.4		
50.0	68981.5	-53.7		

STATION ALTITUDE 3912.75 FEET MSL
 14 JUNE 62 0745 MDT
 ASCENSION 140. 67

SIGHTING LIGHT LEVEL DATA
 1050290007
 1-28

GEODETIC COORDINATES
 32.89927 LAT DEG
 106.40591 LON DEG

TABLE-12 cont'd

PRESSURE	GEOMETRIC ALTITUDE FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR	DEWPOINT DEGREES CENTIGRADE	
41.5	72968.5	-50.5		
34.5	76947.9	-50.9		
30.0	79971.7	-48.7		
25.1	83864.0	-47.1		
20.0	88898.6	-41.9		

STATION ALTITUDE 3412.75 FEET MSL
14 JUNE 82 0745 MDT
ASCENSION NO. 07

UPPER AIR DATA
1650290007
L-28

GEOGRAPHIC COORDINATES
32.89927 LAT DEG
106.40591 LONG DEG

TABLE-13

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ MLTER	SPEED OF SOUND M/SEC	WIND DIRECTION (DEGREES TRUE)	WIND SPEED KNOTS	INDEX OF REFRACTION
3512.7	878.1	19.1	76.0	1039.4	660.4	220.0	9.9	1.000300
4000.0	875.4	19.3	70.4	1035.7	660.5	219.5	10.2	1.000301
4500.0	860.1	20.2	63.5	1014.7	669.5	216.0	12.2	1.000292
5000.0	845.1	21.2	52.7	994.2	670.4	213.7	14.1	1.000280
5500.0	830.4	22.5	43.4	974.5	671.2	211.5	16.1	1.000257
6000.0	810.6	21.9	31.6	954.9	670.4	222.2	17.4	1.000250
6500.0	801.6	20.7	31.6	940.7	669.1	231.5	19.1	1.000245
7000.0	787.4	19.3	32.6	934.5	667.4	232.9	20.5	1.000241
7500.0	773.4	17.9	33.6	922.5	665.8	231.6	21.4	1.000236
8000.0	759.6	16.5	34.5	910.0	664.1	229.2	22.0	1.000232
8500.0	746.2	15.1	35.5	898.9	662.5	227.0	22.3	1.000228
9000.0	732.9	13.7	36.5	887.4	660.0	225.2	22.6	1.000224
9500.0	719.9	12.3	37.5	875.1	657.5	225.2	23.1	1.000220
10000.0	707.1	10.9	38.5	864.9	657.5	225.7	23.8	1.000216
10500.0	694.4	9.7	37.0	853.2	650.0	227.0	24.9	1.000211
11000.0	681.7	8.8	32.3	840.0	654.4	229.1	25.4	1.000205
11500.0	669.3	7.9	27.7	828.3	653.0	231.0	25.7	1.000199
12000.0	657.1	7.6	23.7	814.1	653.2	231.5	25.6	1.000193
12500.0	645.0	6.9	21.8	801.2	652.4	231.1	25.6	1.000189
13000.0	633.0	5.9	21.5	789.3	651.2	229.0	26.0	1.000186
13500.0	621.3	4.9	21.1	777.4	650.0	229.0	26.8	1.000182
14000.0	609.8	4.0	20.8	765.0	640.4	231.5	28.0	1.000179
14500.0	598.5	3.0	20.5	754.4	647.7	233.0	29.7	1.000176
15000.0	587.4	2.0	20.2	743.1	640.5	234.1	31.7	1.000173
15500.0	576.5	.9	20.2	732.3	643.2	234.0	33.2	1.000170
16000.0	565.6	-.4	20.5	721.0	643.7	233.5	34.4	1.000167
16500.0	554.9	-1.7	20.8	711.5	642.2	232.0	35.2	1.000164
17000.0	544.4	-2.8	20.9	701.1	640.7	231.5	35.7	1.000162
17500.0	534.0	-3.8	20.7	690.1	639.0	229.9	37.4	1.000159
18000.0	523.8	-4.7	20.5	679.2	630.5	228.5	39.6	1.000156
18500.0	513.8	-5.6	20.3	668.0	637.4	228.0	41.3	1.000153
19000.0	503.9	-6.5	20.1	656.1	630.3	226.0	43.0	1.000151
19500.0	494.1	-7.7	20.8	645.1	634.9	230.1	42.9	1.000148
20000.0	484.4	-9.0	22.3	636.5	633.4	232.5	43.0	1.000146
20500.0	474.9	-10.3	23.7	629.0	631.8	234.0	43.5	1.000144
21000.0	465.6	-11.6	25.1	619.7	630.3	237.1	43.7	1.000142
21500.0	456.5	-12.9	26.5	610.0	628.7	239.1	43.3	1.000139
22000.0	447.5	-14.1	28.0	601.0	627.1	240.5	43.5	1.000137
22500.0	438.7	-15.4	29.4	592.0	625.5	241.4	43.9	1.000135
23000.0	430.0	-16.5	29.4	583.5	624.5	242.1	45.1	1.000133

STATION ALTITUDE 3912.75 FLFT MSL
14 JUNE 62 0745 MDT
ASCENSION NO. 07

UPPER AIR DATA
1050290067
1-7,8

GEODETIC COORDINATES
32.89927 LAT DEG
100.40591 LONG DEG

TABLE-13 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TH)	WIND SPEED KNOTS	INDEX OF REFRACTION
23500.0	421.4	-17.3	28.5	570.5	023.5	242.0	46.4	1.000130
24000.0	412.9	-18.1	27.5	565.0	022.5	244.7	47.0	1.000129
24500.0	404.6	-18.9	26.5	559.2	021.2	247.2	47.9	1.000126
25000.0	396.4	-19.9	26.2	553.1	020.1	250.4	49.2	1.000123
25500.0	388.3	-21.1	26.8	536.4	018.0	251.6	49.9	1.000121
26000.0	380.3	-22.2	27.3	527.0	017.2	252.0	50.3	1.000119
26500.0	372.5	-23.4	27.8	519.4	015.8	253.0	49.3	1.000117
27000.0	364.9	-24.5	28.3	511.1	014.4	253.5	46.4	1.000115
27500.0	357.4	-25.7	28.8	502.9	013.0	254.0	48.0	1.000113
28000.0	349.9	-26.9	29.1	494.8	011.4	255.7	47.7	1.000111
28500.0	342.5	-28.1	29.2	486.8	009.4	256.0	47.5	1.000110
29000.0	335.2	-29.3	29.3	478.9	008.4	257.2	47.6	1.000108
29500.0	328.1	-30.6	29.5	471.1	006.4	257.7	48.0	1.000106
30000.0	321.2	-31.8	29.6	463.5	005.3	257.9	49.7	1.000104
30500.0	314.4	-33.0	29.7	456.0	003.8	257.8	49.6	1.000102
31000.0	307.7	-34.2	29.8	448.7	002.2	257.6	50.1	1.000101
31500.0	301.2	-35.5	30.0	441.4	000.6	257.5	50.2	1.000099
32000.0	294.7	-36.7	30.0	434.2	000.1	257.0	50.0	1.000097
32500.0	288.3	-37.9	30.0	427.0	000.5	256.7	49.7	1.000096
33000.0	282.0	-39.1	28.3**	419.8	000.0	257.1	50.3	1.000094
33500.0	275.7	-40.2	23.1**	412.4	000.0	257.6	51.6	1.000092
34000.0	269.6	-41.3	17.8**	405.2	000.2	259.6	54.8	1.000090
34500.0	263.7	-42.4	12.5**	398.1	001.0	261.7	57.9	1.000089
35000.0	257.8	-43.5	7.2**	391.1	000.4	263.7	60.4	1.000087
35500.0	252.1	-44.6	2.0**	384.2	000.0	265.5	62.3	1.000086
36000.0	246.4	-45.6		377.2	000.7	266.6	63.3	1.000084
36500.0	240.8	-46.5		370.2	000.4	268.1	64.7	1.000082
37000.0	235.3	-47.5		363.5	000.2	269.4	66.5	1.000081
37500.0	229.9	-48.4		356.5	000.0	270.8	68.4	1.000079
38000.0	224.7	-49.4		349.0	000.7	272.5	70.4	1.000078
38500.0	219.6	-50.3		343.5	001.5	273.6	71.9	1.000076
39000.0	214.6	-51.3		338.9	000.3	275.4	72.4	1.000075
39500.0	209.6	-52.2		330.6	000.1	276.9	72.6	1.000074
40000.0	204.8	-53.0		324.0	000.1	277.9	71.9	1.000072
40500.0	200.0	-53.7		317.5	000.7	278.6	71.2	1.000071
41000.0	195.3	-54.2		310.7	000.5	279.1	70.4	1.000069
41500.0	190.7	-54.6		304.1	000.3	279.5	69.6	1.000068
42000.0	186.2	-55.1		297.5	000.3	279.4	68.9	1.000066
42500.0	181.9	-55.6		291.2	000.0	279.2	68.2	1.000065
43000.0	177.6	-56.0		284.9	000.0	280.5	66.1	1.000063

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3912.75 FEET MSL
14 JUNE 62 0745 MDT
ASCENSION NO. 07

UPPER AIR DATA
1050290007
E-28

GEODETTIC COORDINATES
32.89927 LAT DEG
105.40591 LONG DEG

TABLE-13 cont'd

GEODETTIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	WIND DIRECTION DEGREES	WIND SPEED KNOTS	INDEX OF REFRACTION
43500.0	175.4	-56.5		278.0	575.4	1.000062
44000.0	169.3	-57.0		272.9	572.0	1.000061
44500.0	165.3	-57.8		267.4	571.0	1.000060
45000.0	161.3	-58.8		262.2	570.4	1.000058
45500.0	157.5	-59.8		257.2	569.0	1.000057
46000.0	153.7	-60.9		252.2	567.6	1.000056
46500.0	150.0	-61.9		247.4	566.2	1.000055
47000.0	146.4	-63.0		242.0	564.8	1.000054
47500.0	142.8	-64.0		237.9	563.4	1.000053
48000.0	139.3	-64.6		232.7	562.0	1.000052
48500.0	135.9	-65.1		227.5	562.0	1.000051
49000.0	132.6	-65.5		222.4	561.4	1.000050
49500.0	129.3	-65.9		217.3	560.9	1.000048
50000.0	126.1	-65.5		211.0	561.3	1.000047
50500.0	123.0	-65.9		204.0	563.5	1.000046
51000.0	120.0	-64.3		200.2	563.0	1.000045
51500.0	117.1	-65.1		196.0	562.0	1.000044
52000.0	114.2	-65.6		191.0	561.3	1.000043
52500.0	111.4	-65.0		186.4	562.1	1.000041
53000.0	108.7	-64.4		181.3	562.9	1.000040
53500.0	106.0	-61.6		174.0	560.7	1.000039
54000.0	103.5	-60.2		169.3	560.5	1.000038
54500.0	101.0	-60.3		165.2	568.4	1.000037
55000.0	98.5	-60.8		161.0	567.7	1.000036
55500.0	96.1	-61.6		156.3	566.0	1.000035
56000.0	93.8	-62.5		155.1	563.5	1.000035
56500.0	91.5	-63.3		151.9	564.4	1.000034
57000.0	89.3	-64.1		146.9	563.3	1.000033
57500.0	87.1	-64.7		145.0	562.5	1.000032
58000.0	85.0	-64.7		142.1	562.4	1.000032
58500.0	82.9	-62.8		137.3	563.0	1.000031
59000.0	80.9	-61.4		135.2	560.9	1.000030
59500.0	79.0	-61.5		130.0	560.7	1.000029
60000.0	77.1	-61.7		126.9	560.0	1.000028
60500.0	75.2	-61.8		123.9	560.4	1.000028
61000.0	73.4	-61.9		121.0	560.3	1.000027
61500.0	71.6	-62.0		118.1	560.1	1.000026
62000.0	69.9	-62.0		115.3	560.1	1.000026
62500.0	68.2	-61.0		112.0	567.4	1.000025
63000.0	66.5	-60.0		108.0	560.8	1.000024

STATION ALTITUDE 3912.75 FEET MSL
18 JUNE 62 0745 MDT
ASCENSION NO. 07

UPPER AIR DATA
105029000/
1-28

GEODETIC COORDINATES
32.89927 LAT DEG
106.40591 LON DEG

TABLE-13 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (HH) SPEED (KNOTS)	INDEX OF REFRACTION
03500.0	65.0	-59.0		105.7	570.1	359.2	1.000024
04000.0	63.4	-58.0		102.7	571.5	64.0	1.000023
04500.0	61.9	-57.8		100.2	571.7	60.3	1.000022
05000.0	60.4	-57.7		97.7	571.6	60.7	1.000022
05500.0	59.0	-57.6		95.4	572.0	71.2	1.000021
06000.0	57.6	-57.5		93.1	572.1	75.2	1.000021
06500.0	56.3	-57.3		90.8	572.3	81.0	1.000020
07000.0	54.9	-56.6		88.4	573.3	93.5	1.000020
07500.0	53.6	-55.9		86.0	574.3	110.5	1.000019
08000.0	52.4	-55.1		83.7	575.2	113.0	1.000019
08500.0	51.2	-54.4		81.5	576.2	117.7	1.000018
09000.0	50.0	-53.7		79.3	577.1	114.0	1.000018
09500.0	48.8	-53.3		77.3	577.7	110.4	1.000017
70000.0	47.7	-52.9		75.4	578.2	106.5	1.000017
70500.0	46.6	-52.5		73.5	578.7	103.7	1.000016
71000.0	45.5	-52.1		71.7	579.2	101.0	1.000016
71500.0	44.4	-51.7		69.9	579.6	100.3	1.000016
72000.0	43.4	-51.3		68.2	580.3	99.1	1.000015
72500.0	42.4	-50.9		66.5	580.6	97.0	1.000015
73000.0	41.4	-50.5		64.8	581.3	96.0	1.000014
73500.0	40.5	-50.6		63.4	581.2	94.0	1.000014
74000.0	39.6	-50.6		61.9	581.2	93.0	1.000014
74500.0	38.7	-50.7		60.5	581.1	93.0	1.000013
75000.0	37.8	-50.7		59.1	581.0	92.0	1.000013
75500.0	36.9	-50.8		57.8	581.0	92.7	1.000013
76000.0	36.1	-50.8		56.5	580.9	92.7	1.000013
76500.0	35.2	-50.9		55.2	580.6	94.7	1.000012
77000.0	34.4	-50.9		53.9	580.6	97.2	1.000012
77500.0	33.6	-50.5		52.8	581.3	100.0	1.000012
78000.0	32.9	-50.1		51.3	581.6	104.3	1.000011
78500.0	32.1	-49.8		50.1	582.3	108.2	1.000011
79000.0	31.4	-49.4		48.9	582.7	110.1	1.000011
79500.0	30.7	-49.0		47.7	583.2	110.2	1.000011
80000.0	30.0	-48.7		46.5	583.7	110.4	1.000010
80500.0	29.3	-48.5		45.4	583.9	109.4	1.000010
81000.0	28.6	-48.3		44.3	584.2	109.3	1.000010
81500.0	28.0	-48.1		43.3	584.5	93.1	1.000010
82000.0	27.3	-47.9		42.3	584.7	89.0	1.000009
82500.0	26.7	-47.7		41.3	585.0	88.4	1.000009
83000.0	26.1	-47.5		40.3	585.3	85.0	1.000009

STATION ALTITUDE 3,12.75 FEET MSL
14 JUN 62 0745 MDT
ASCENSION NO. 67

U.P.R. AIR DATA
1650250007
L-28

GEODETIC COORDINATES
32.89927 LAT DEG
106.40591 LON DEG

TABLE-13 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KILOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (T)	SPEED KILOTS	
63500.0	25.5	-47.2		39.4	563.5	88.0	11.5	1.000009
64000.0	24.9	-47.0		38.4	563.9	91.4	11.8	1.000009
64500.0	24.4	-46.4		37.5	565.0	90.1	11.9	1.000008
65000.0	23.8	-45.9		36.6	567.2	88.9	11.8	1.000008
65500.0	23.3	-45.4		35.7	567.9	83.0	11.8	1.000008
66000.0	22.8	-44.9		34.8	569.0	87.9	10.5	1.000008
66500.0	22.3	-44.4		33.9	569.2	93.9	9.1	1.000008
67000.0	21.8	-43.9		33.1	569.9			1.000007
67500.0	21.3	-43.3		32.3	590.0			1.000007
68000.0	20.8	-42.8		31.5	591.7			1.000007
68500.0	20.4	-42.3		30.7	591.9			1.000007

STATION ALTITUDE 3912.75 FEET MSL
14 JUNE 82
ASCENSION NO. 67 0745 MDT

MANDATORY LEVELS
1.50290007
1-28

TABLE-14

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TH)	SPEED KNOTS
750.0	4833.	20.8	12.5	59.	214.4	15.5
800.0	6558.	20.6	3.2	32.	231.7	19.3
750.0	8370.	15.5	.2	33.	227.5	22.3
700.0	10271.	10.1	-3.2	39.	220.4	24.4
650.0	12291.	7.3	-13.0	22.	231.4	25.5
600.0	14424.	3.1	-17.3	21.	232.0	29.5
550.0	16715.	-0.3	-21.0	21.	232.1	35.4
500.0	19176.	-0.9	-26.0	20.	220.0	43.0
450.0	21038.	-13.8	-20.3	20.	240.2	43.3
400.0	24740.	-19.4	-34.0	20.	240.9	40.0
350.0	27949.	-20.8	-39.4	29.	255.7	47.7
300.0	31533.	-35.7	-47.0	30.	257.2	50.2
250.0	35009.	-45.0			265.8	62.6
200.0	40405.	-53.7			270.8	71.2
175.0	43204.	-50.3			261.1	64.7
150.0	46380.	-61.9			274.1	58.4
125.0	50034.	-64.7			271.7	40.0
100.0	54531.	-60.3			270.5	15.3
80.0	59041.	-61.5			295.8	2.7
70.0	61753.	-62.1			20.3	.7
60.0	64922.	-57.7			67.0	11.2
50.0	68723.	-53.7			115.0	5.8
40.0	73468.	-50.6			94.2	11.9
30.0	79630.	-48.7			110.3	15.6
25.0	83577.	-47.0			91.0	11.8
20.0	88481.	-41.0				

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODOLITE COORDINATES
32.00497 LAT DEG
106.49714 LONG DEG

SIGNIFICANT LEVEL DATA
1050220011
100 30

TABLE-15

STATION ALTITUDE 4010.40 FEET MSL
14 JUNE 62 0845 MDT
ASCENSION NO. 11

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE AIR	TEMPERATURE DEWPOINT	REL. HUM. PERCENT
MILLIBARS	MSL FEET	DEGREES CENTIGRADE		
674.0	4010.4	22.9	10.1	54.0
666.1	4291.0	25.0	7.2	52.0
650.0	4630.1	23.6	5.5	51.0
727.0	9194.6	11.6	-1.2	41.0
700.0	10255.2	9.8	-10.5	23.0
646.9	12303.5	5.5	-17.7	17.0
621.6	13454.3	4.2	-20.1	15.0
589.8	14854.7	3.1	-21.0	15.0
549.0	16750.0	-6	-25.5	10.0
500.0	19175.7	-7.2	-27.4	18.0
433.5	22766.9	-16.9	-34.5	20.0
400.0	24759.8	-20.4	-35.0	24.0
349.9	27949.6	-28.3	-38.9	35.0
323.9	29759.2	-31.9	-43.0	30.0
300.0	31524.5	-36.8	-47.7	31.0
286.6	32561.0	-39.1	-49.5	32.0
274.7	33513.1	-41.7		
250.0	35598.9	-45.6		
228.8	37520.9	-49.2		
203.0	40092.0	-53.1		
200.0	40408.2	-53.1		
188.4	41671.5	-55.1		
183.6	42215.4	-56.2		
178.8	42769.0	-55.6		
150.0	46401.4	-62.3		
131.7	49026.5	-66.2		
120.3	50841.0	-65.2		
113.0	52093.9	-66.8		
108.0	53000.2	-65.0		
103.6	53036.5	-65.2		
100.0	54555.3	-60.5		
96.8	55224.0	-60.5		
88.2	57112.6	-66.0		
77.4	59750.2	-62.6		
76.0	61002.1	-61.4		
65.9	63040.9	-60.5		
62.3	64206.2	-56.9		
58.2	65629.7	-57.1		
50.0	68432.5	-53.3		
35.8	75268.9	-41.7		

GEODETIC COORDINATES
 32.88497 LAT DEG
 106.49714 LONG DEG

SIGNIFICANT LEVEL DATA
 1.59220011
 1.1W 30

TABLE-15 cont'd

STATION ALTITUDE 4010.40 FEET MSL
 14 JUNE 62 0945 MDT
 ASCENSION NO. 11

PRESSURE	GEOMETRIC ALTITUDE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
32.2	78257.4	-48.7		
30.0	79793.8	-49.4		
28.6	80830.7	-49.0		

STATION ALTITUDE 4010.00 FEET MSL
14 JUL 62 0845 MDT
ASCENSION NO. 11

UPPER AIR DATA
JCS020001
100 30

TABLE-16

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/SEC	WIND DIRECTION DEGREES (true)	WIND SPEED KNOTS	INDEX OF REFRACTION
4010.0	874.6	22.9	13.1	54.0	1022.4	672.5	240.0	5.1	1.000293
4500.0	859.8	24.5	6.5	31.0	1002.2	673.5	230.9	7.0	1.000205
5000.0	844.9	25.1	5.3	31.4	989.4	671.9	225.6	9.0	1.000259
5500.0	830.0	21.8	4.6	32.5	970.0	670.5	222.5	11.1	1.000255
6000.0	815.3	20.4	3.9	33.7	964.0	669.7	220.6	12.8	1.000250
6500.0	800.9	19.0	3.1	34.8	951.5	667.1	225.1	14.7	1.000246
7000.0	785.8	17.6	2.4	36.0	939.3	665.5	222.2	16.8	1.000242
7500.0	772.9	16.3	1.6	37.1	927.2	663.9	220.6	19.1	1.000238
8000.0	759.2	14.9	.8	38.3	915.3	662.2	220.3	21.5	1.000234
8500.0	745.8	13.5	-.0	39.4	903.0	660.6	224.9	23.7	1.000229
9000.0	732.7	12.1	-.9	40.6	892.0	659.0	225.3	24.8	1.000225
9500.0	719.5	11.1	-3.5	35.8	879.7	657.6	227.4	25.9	1.000218
10000.0	705.5	10.2	-7.8	27.3	860.9	656.4	220.1	26.8	1.000209
10500.0	693.6	9.3	-11.2	22.3	854.4	655.2	220.5	27.5	1.000203
11000.0	680.9	8.2	-12.9	20.8	842.2	653.6	225.0	28.2	1.000198
11500.0	668.5	7.1	-14.7	19.4	830.1	652.5	224.6	28.7	1.000194
12000.0	656.2	6.0	-16.6	17.9	818.2	651.2	226.0	29.2	1.000190
12500.0	644.2	5.1	-18.1	16.7	805.7	650.1	230.0	29.7	1.000187
13000.0	632.2	4.6	-19.1	15.8	792.2	649.6	233.3	30.5	1.000183
13500.0	620.5	4.2	-20.1	15.0	778.9	649.0	235.2	31.5	1.000180
14000.0	609.0	3.8	-20.4	15.0	765.6	648.5	230.0	32.8	1.000176
14500.0	597.7	3.4	-20.7	15.0	752.4	648.1	230.4	33.7	1.000173
15000.0	586.6	2.8	-21.1	15.1	739.9	647.4	230.5	34.5	1.000170
15500.0	575.6	1.8	-21.7	15.3	726.7	646.3	235.3	34.2	1.000168
16000.0	564.8	.9	-22.3	15.6	717.6	645.1	235.6	33.6	1.000165
16500.0	554.2	-.1	-23.0	15.9	706.7	643.9	235.6	33.4	1.000162
17000.0	543.7	-1.3	-23.7	16.2	696.3	642.6	235.9	33.3	1.000160
17500.0	533.4	-2.6	-24.5	16.6	686.3	640.9	234.5	33.4	1.000157
18000.0	523.2	-4.0	-25.4	17.0	676.0	639.3	235.2	33.6	1.000155
18500.0	513.2	-5.4	-26.2	17.4	667.3	637.7	235.7	33.9	1.000152
19000.0	503.4	-6.7	-27.1	17.9	657.9	636.1	230.0	34.4	1.000150
19500.0	493.6	-8.1	-28.0	18.2	648.4	634.4	230.1	34.5	1.000148
20000.0	483.9	-9.4	-29.0	18.5	638.9	632.8	230.2	34.3	1.000145
20500.0	474.4	-10.8	-30.0	18.7	629.6	631.2	230.6	34.5	1.000143
21000.0	465.0	-12.1	-30.9	19.0	620.4	629.5	237.2	34.8	1.000141
21500.0	455.9	-13.5	-31.9	19.3	611.4	627.9	230.7	36.6	1.000139
22000.0	446.9	-14.8	-32.9	19.6	602.5	626.2	240.3	38.8	1.000136
22500.0	438.1	-16.2	-33.9	19.9	593.8	624.6	241.9	40.4	1.000134
23000.0	429.4	-17.3	-34.6	20.5	584.5	623.2	243.5	41.9	1.000132
23500.0	420.7	-18.2	-34.8	21.5	574.7	622.1	245.1	42.2	1.000130

STATION ALTITUDE 4010.40 FEET SL
14 JUNE 62 0845 MDT
ASCENSION 10. 11

UPPER AIR DATA
1050220011
1.W 30

GEODETTIC COORDINATES
32.88497 LAT ULC
100.49714 LONG ULC

TABLE-16 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND M/SEC	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24000.0	412.2	-19.1	22.5	565.1	621.0	240.7	1.000128
24500.0	403.9	-20.0	23.5	555.0	620.0	251.2	1.000129
25000.0	395.7	-21.0	24.9	545.0	619.7	250.5	1.000125
25500.0	387.5	-22.3	26.6	536.0	617.1	250.5	1.000121
26000.0	379.5	-23.5	28.3	529.0	615.0	259.0	1.000120
26500.0	371.7	-24.7	30.0	521.1	614.1	257.7	1.000118
27000.0	364.0	-26.0	31.7	512.9	612.0	250.5	1.000116
27500.0	356.5	-27.2	33.5	504.0	611.0	250.9	1.000114
28000.0	349.1	-28.4	34.9	496.9	609.5	257.0	1.000112
28500.0	341.0	-29.4	33.5	488.4	606.3	259.0	1.000110
29000.0	334.6	-30.4	32.1	480.0	607.0	260.1	1.000108
29500.0	327.5	-31.4	30.7	471.0	605.0	260.7	1.000106
30000.0	320.5	-32.6	30.1	464.1	604.5	261.0	1.000104
30500.0	313.6	-34.0	30.4	456.7	602.0	261.1	1.000102
31000.0	306.9	-35.3	30.7	449.5	599.0	261.5	1.000101
31500.0	300.3	-36.7	31.0	442.5	597.0	262.0	1.000099
32000.0	293.8	-37.9	31.5	434.9	597.0	262.5	1.000097
32500.0	287.4	-39.0	31.9	427.4	596.2	262.2	1.000096
33000.0	281.1	-40.3	17.21*	420.5	594.5	262.2	1.000094
33500.0	274.9	-41.7	16.8*	413.0	592.7	262.5	1.000092
34000.0	268.7	-42.6		406.1	591.5	263.4	1.000090
34500.0	262.7	-43.5		398.6	590.5	263.5	1.000089
35000.0	256.9	-44.5		391.5	589.1	267.4	1.000087
35500.0	251.1	-45.4		384.1	587.9	270.2	1.000086
36000.0	245.4	-46.3		377.0	586.7	272.0	1.000084
36500.0	239.9	-47.3		370.0	585.5	274.0	1.000082
37000.0	234.4	-48.2		363.1	584.3	276.0	1.000081
37500.0	229.1	-49.1		356.5	583.1	277.7	1.000079
38000.0	223.8	-49.9		349.5	582.1	278.5	1.000078
38500.0	218.7	-50.7		342.4	581.1	278.7	1.000076
39000.0	213.6	-51.4		335.0	580.1	279.0	1.000075
39500.0	208.7	-52.2		329.0	579.1	279.0	1.000073
40000.0	203.9	-53.0		322.0	578.1	279.1	1.000072
40500.0	199.1	-53.2		315.5	577.7	279.4	1.000070
41000.0	194.5	-54.0		309.2	576.7	280.0	1.000069
41500.0	189.9	-54.8		303.1	575.0	280.7	1.000068
42000.0	185.5	-55.8		297.2	574.4	282.7	1.000066
42500.0	181.1	-55.9		290.4	574.2	283.0	1.000065
43000.0	176.8	-56.0		283.7	574.0	283.0	1.000063
43500.0	172.6	-56.9		276.1	572.8	287.1	1.000061

** AT LAST ONE ASSIGNED LATITUDE AND LONGITUDE, DATA USED FOR FULL CORRECTION.

STATION ALTITUDE 4010.00 FEET MSL
14 JUNE 62 0845 MDT
ASCENSION NO. 11

UPLR AIR DATA
1050220011
1W 30

CLOUDS CUMULATUS
32.00497 LAT DEG
106.49714 LONG DEG

TABLE-16 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KIOTS	WIND DATA DIRECTION DEGREES (TIN)	SPEED KIOTS	INDEX OF REFRACTION
44000.0	100.5	-57.9		272.0	571.0	200.1	38.6	1.0000061
44500.0	104.4	-58.8		267.2	570.4	201.0	38.2	1.0000060
45000.0	108.5	-59.7		262.0	569.2	200.0	34.9	1.0000058
45500.0	100.7	-60.6		250.8	567.9	272.2	35.2	1.0000057
46000.0	102.9	-61.6		251.8	566.7	208.5	35.5	1.0000056
46500.0	149.3	-62.4		240.8	565.5	200.2	36.3	1.0000055
47000.0	145.6	-63.2		241.0	564.5	207.9	36.9	1.0000054
47500.0	142.1	-63.9		230.5	563.5	200.0	36.9	1.0000053
48000.0	138.6	-64.7		231.0	562.5	209.7	36.8	1.0000052
48500.0	135.2	-65.4		220.7	561.5	270.5	36.7	1.0000050
49000.0	131.9	-66.2		221.9	560.5	270.7	36.5	1.0000049
49500.0	128.6	-66.9		210.2	560.0	271.1	36.8	1.0000048
50000.0	125.5	-67.7		210.0	561.2	271.0	37.3	1.0000047
50500.0	122.4	-68.4		205.2	561.5	272.0	37.7	1.0000046
51000.0	119.3	-69.4		200.1	561.5	272.0	38.1	1.0000045
51500.0	116.4	-69.0		195.8	560.7	273.1	38.4	1.0000044
52000.0	113.5	-68.7		191.0	559.8	274.5	37.0	1.0000043
52500.0	110.7	-68.0		180.2	560.7	275.0	35.5	1.0000041
53000.0	108.0	-65.0		180.8	562.1	277.5	32.6	1.0000040
53500.0	105.3	-65.1		170.4	561.9	280.1	29.0	1.0000039
54000.0	102.8	-64.1		171.5	563.2	282.1	25.6	1.0000038
54500.0	100.3	-60.9		164.5	567.0	282.5	22.4	1.0000037
55000.0	97.9	-60.4		160.2	560.3	282.7	19.3	1.0000036
55500.0	95.5	-61.1		150.9	567.3	279.9	17.7	1.0000035
56000.0	93.2	-62.6		154.2	565.2	270.4	16.1	1.0000034
56500.0	90.9	-64.2		151.5	563.2	274.4	14.9	1.0000034
57000.0	88.7	-65.7		140.9	561.2	275.1	13.9	1.0000033
57500.0	86.5	-65.5		145.2	561.4	272.0	12.9	1.0000032
58000.0	84.4	-64.9		141.2	562.3	271.0	11.5	1.0000031
58500.0	82.3	-64.2		137.5	565.1	270.2	10.1	1.0000031
59000.0	80.3	-63.6		135.5	564.0	280.1	8.4	1.0000030
59500.0	78.4	-62.9		129.9	564.9	284.5	6.4	1.0000029
60000.0	76.5	-62.5		126.4	565.5	287.7	4.2	1.0000028
60500.0	74.6	-62.2		123.2	565.9	103.4	.8	1.0000027
61000.0	72.8	-61.9		120.0	560.5	93.4	4.6	1.0000027
61500.0	71.0	-61.6		117.0	560.7	105.2	6.3	1.0000026
62000.0	69.3	-61.3		114.0	567.1	115.2	7.5	1.0000025
62500.0	67.7	-60.9		111.0	567.6	116.7	7.7	1.0000025
63000.0	66.0	-60.5		108.2	560.1	124.2	6.4	1.0000024
63500.0	64.5	-59.1		104.9	570.0	120.4	5.4	1.0000023

STATION ALTITUDE 4010.00 FEET MSL
14 JUNE 82 0845 MDT
ASCENSION NO. 11

UNPLR AIR DATA
1650220011
14W 30

CLOUDY COORDINATES
32.00497 LAT DEG
106.49714 LONG DEG

TABLE-16 cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	WIND DIRECTION DEGREES (true)	WIND SPEED KNOTS	INDEX OF REFRACTION
04000.0	04.9	-57.5	101.7	572.0	109.9	6.0	1.000023
04500.0	04.4	-56.9	99.0	572.6	95.0	7.0	1.000022
05000.0	04.0	-57.0	96.7	572.7	94.4	7.2	1.000022
05500.0	03.6	-57.1	94.4	572.7	93.9	7.3	1.000021
06000.0	03.2	-56.7	92.0	573.2	92.0	7.5	1.000020
06500.0	02.8	-56.1	89.0	574.0	89.0	7.7	1.000020
07000.0	02.5	-55.5	87.3	574.0	87.2	7.8	1.000019
07500.0	02.3	-54.9	85.0	575.6	84.0	7.6	1.000019
08000.0	02.0	-54.3	82.0	576.3	82.1	7.3	1.000018
08500.0	01.6	-53.7	80.0	577.1	80.0	6.8	1.000018
09000.0	01.3	-53.3	76.0	577.7	76.0	6.3	1.000017
09500.0	01.0	-53.2	70.7	577.6	72.0	6.0	1.000017
70000.0	00.7	-53.0	74.9	576.0	65.7	5.8	1.000017
70500.0	00.2	-52.9	73.2	575.1	62.7	6.0	1.000016
71000.0	00.0	-52.8	71.4	576.3	63.9	6.5	1.000016
71500.0	00.0	-52.7	69.7	576.4	67.4	6.9	1.000016
72000.0	00.0	-52.6	66.1	576.0	64.0	7.2	1.000015
72500.0	00.0	-52.5	60.3	576.7	93.0	0.1	1.000015
73000.0	00.0	-52.4	64.9	576.9	109.3	0.3	1.000014
73500.0	00.0	-52.3	63.4	579.0	119.3	8.5	1.000014
74000.0	00.0	-52.1	61.9	579.2	127.3	8.8	1.000014
74500.0	00.0	-52.0	60.4	579.3	131.3	9.1	1.000013
75000.0	00.0	-51.9	59.0	579.5	135.0	9.4	1.000013
75500.0	00.0	-51.8	57.0	579.0	132.7	9.7	1.000013
76000.0	00.0	-51.7	50.2	579.8	132.7	9.9	1.000013
76500.0	00.0	-51.0	54.0	580.7	130.4	10.2	1.000012
77000.0	00.0	-50.3	53.4	581.3	126.0	9.2	1.000012
77500.0	00.0	-49.7	52.0	582.4	126.5	7.9	1.000012
78000.0	00.0	-49.0	50.7	583.2	124.7	6.7	1.000011
78500.0	00.0	-48.8	49.4	583.5	132.3	6.7	1.000011
79000.0	00.0	-49.0	48.4	583.2	139.0	6.9	1.000011
79500.0	00.0	-49.3	47.3	582.9			1.000011
80000.0	00.0	-49.3	46.2	582.8			1.000010
80500.0	00.0	-49.1	45.2	583.1			1.000010

STATION ALTITUDE 4010-40 FLEET MSL
14 JUNE 82 0845 MDT
ASCENSION NO. 11

MANDATORY LEVELS
1350220011
1, W 30
TABLE-17

GEOGETIC COORDINATES
32.88497 LAT DEG
106.49714 LONG DEG

PRESSURE GEOPOTENTIAL MILLIBARS	FELT	TEMPERATURE		REL. HUMID. PERCENT	WIND DATA		
		AIR DEGREES	DEW POINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS	
850.0	4827.	23.6	5.5	31.	227.3	0.3	
800.0	6509.	18.9	3.1	35.	235.0	14.8	
750.0	6351.	13.9	.2	39.	224.9	23.2	
700.0	10244.	9.8	-10.3	23.	227.5	27.2	
650.0	12245.	5.4	-17.0	17.	228.9	29.4	
600.0	14382.	3.5	-20.7	15.	230.3	33.5	
550.0	16081.	-.5	-23.2	10.	233.8	33.4	
500.0	19149.	-7.2	-27.4	18.	230.1	34.5	
450.0	21807.	-14.4	-32.0	19.	239.7	33.0	
400.0	24099.	-20.4	-35.6	24.	253.6	42.6	
350.0	27093.	-28.3	-38.9	33.	257.4	40.2	
300.0	31463.	-36.8	-47.7	31.	262.0	47.1	
250.0	35522.	-45.6			270.0	04.4	
200.0	40312.	-53.1			279.3	63.1	
175.0	43110.	-56.4			280.4	44.7	
150.0	46277.	-62.3			288.3	30.1	
125.0	49929.	-65.6			271.6	37.3	
100.0	54388.	-60.5			282.5	22.2	
80.0	58085.	-63.5			207.0	0.2	
70.0	61571.	-61.4			109.9	6.9	
60.0	64761.	-57.0			94.4	7.2	
50.0	68575.	-53.3			79.5	0.5	
40.0	73301.	-52.2			120.4	0.5	
30.0	79453.	-49.4					